National Energy Board

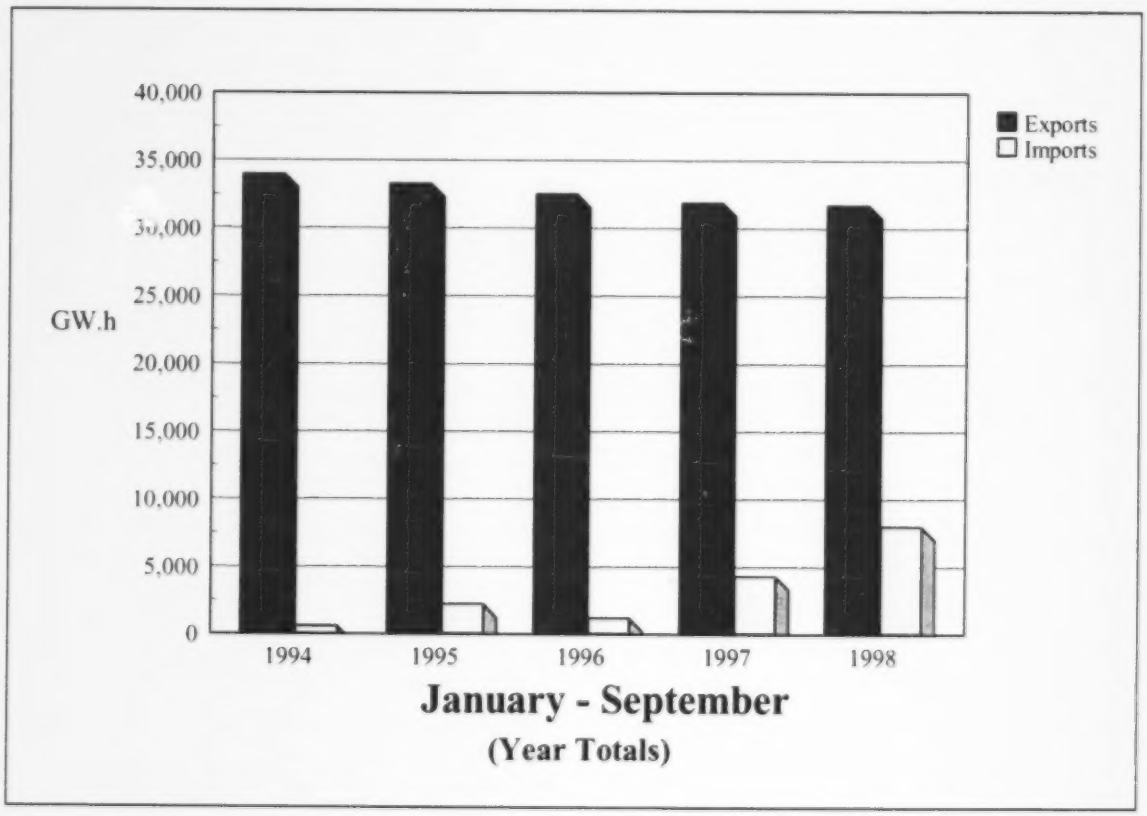
Office national de l'énergie

# Electricity Exports and Imports

## Monthly Statistics for:

## September 1998

Exports: **3850** GW.h
Imports: **984** GW.h



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# TABLE 1
# Exports and Imports of Electricity
# Summary: Canada
# SEPTEMBER 1998



| | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|
| **Exports of Electric Energy** | Firm | 1 809 502 | 15 786 586 | 80 826 662 | 687 638 553 | 33.18 | 31.17 |
| | Interruptible | 2 040 939 | 15 913 820 | 84 548 329 | 592 299 219 | 39.97 | 33.78 |
| | Non-Revenue/Inadvertant | 39 423 | 1 931 930 | 0 | 0 | 0.00 | 0.00 |
| | Service | 67 607 | 777 966 | 0 | 421 | 0.00 | 0.00 |
| **Total Exports** | | **3 957 472** | **34 410 302** | **165 374 991** | **1 279 938 193** | **35.79** | **30.18** |
| Total Sales - Firm and Interruptible | | 3 850 441 | 31 700 406 | 165 374 991 | 1 279 937 772 | 36.78 | 32.54 |
| **Imports of Electric Energy** | Non-Revenue/Inadvertant | 35 465 | 1 821 855 | 0 | 0 | 0.00 | 0.00 |
| | Purchase | 984 375 | 7 992 910 | 36 659 079 | 188 338 629 | 33.39 | 23.02 |
| | Service | 306 951 | 1 000 372 | 83 322 | 288 274 | 0.27 | 0.35 |
| **Total Imports** | | **1 326 791** | **10 815 137** | **36 742 401** | **188 626 903** | **24.83** | **17.59** |
| **Excess of Exports Over Imports** | | **2 630 680** | **23 595 165** | **128 632 590** | **1 091 311 290** | | |

**Number of Export Licences:** 17

**Number of Export Permits/Orders:** 86

103

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | Permit 98 | I | 0 | 887 | 0 | 15 504 | 0.00 | 17.48 |
| TransAlta Ener. | Permit 73 | I | 0 | 150 | 0 | 2 349 | 0.00 | 15.66 |
| | Permit 74 | F | 1 600 | 53 426 | 51 408 | 1 061 505 | 32.13 | 16.96 |
| **Subtotal Firm and Interruptible Exports: Alberta** | | | **1 600** | **54 463** | **51 408** | **1 079 357** | **32.13** | **16.96** |
| **British Columbia** | | | | | | | | |
| BC Hydro | Permit 105 | F | 87 | 727 | 2 210 | 36 699 | 25.51 | 54.83 |
| | Treaty | N | 17 760 | 253 475 | 0 | 0 | 0.00 | 0.00 |
| BC Hydro/Powerx | Permit 43 | I | 1 042 517 | 5 489 294 | 53 220 995 | 224 550 228 | 51.05 | 35.78 |
| | Permit 44 | F | 28 855 | 179 632 | 821 189 | 4 757 470 | 28.46 | 27.10 |
| Cominco | Permit 57 | I | 11 430 | 154 169 | 702 272 | 5 062 167 | 61.44 | 30.25 |
| Powerex | Permit 71 | F | 8 791 | 17 040 | 366 476 | 720 791 | 41.69 | 41.07 |
| | Permit 92 | F | 82 800 | 506 125 | 0 | 0 | 0.00 | 0.00 |
| | Permit 95 | F | 13 720 | 45 795 | 496 151 | 1 835 033 | 36.16 | 39.66 |
| West Kootenay | Permit 13 | F | 0 | 20 | 0 | 1 262 | 0.00 | 61.90 |
| **Subtotal Firm and Interruptible Exports: British Columbia** | | | **1 188 200** | **6 392 802** | **55 609 293** | **236 963 650** | **46.80** | **32.89** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | Licence 170 | F | 266 516 | 2 494 766 | 13 751 326 | 120 482 629 | 27.34 | 23.99 |
| | Permit 33 | F | 33 600 | 139 193 | 706 504 | 2 909 572 | 21.03 | 20.95 |
| | Permit 34 | F | 16 800 | 124 300 | 370 427 | 2 729 553 | 22.05 | 21.78 |
| | Permit 35 | F | 33 120 | 96 710 | 877 842 | 2 589 067 | 26.50 | 24.87 |
| | Permit 45 | F | 189 148 | 1 575 847 | 6 264 611 | 45 085 251 | 28.22 | 24.75 |
| | Permit 46 | I | 296 140 | 4 332 427 | 8 994 288 | 102 735 519 | 30.68 | 22.88 |
| | | N | - 189 628 | - 377 031 | 0 | 0 | 0.00 | 0.00 |
| | Permit 52 | F | 6 005 | 22 314 | 328 505 | 1 264 987 | 26.25 | 24.65 |
| | Permit 61 | F | 240 | 3 197 | 13 301 | 148 360 | 55.33 | 46.06 |
| | Permit 68 | F | 11 259 | 87 995 | 581 449 | 4 509 513 | 25.89 | 22.46 |
| **Subtotal Firm and Interruptible Exports: Manitoba** | | | **852 828** | **8 876 749** | **31 888 252** | **282 454 451** | **28.29** | **23.50** |
| **New Brunswick** | | | | | | | | |
| Fraser Inc. | Permit 102 | F | 27 570 | 236 040 | 1 777 248 | 15 582 075 | 64.46 | 66.10 |
| Maine & NB | Licence 177 | F | 1 408 | 80 442 | 108 083 | 2 084 246 | 16.40 | 16.40 |
| NB Power | Permit 15 | I | 0 | 1 533 | 0 | 144 451 | 0.00 | 43.89 |
| | | N | -1 824 | 179 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| NB Power | Permit 16 | I | 7 764 | 39 463 | 440 540 | 2 289 400 | 56.74 | 49.34 |
| | | N | -6 537 | -57 354 | 0 | 0 | 0.00 | 0.00 |
| | Permit 17 | S | 2 524 | 39 200 | 0 | 0 | 0.00 | 0.00 |
| | Permit 18 | I | 3 600 | 26 617 | 176 078 | 1 293 434 | 48.91 | 49.68 |
| | | N | 68 | 36 | 0 | 0 | 0.00 | 0.00 |
| | Permit 28 | F | 3 | 23 | 352 | 2 804 | 105.69 | 119.03 |
| | Permit 47 | F | 6 409 | 61 432 | 487 743 | 4 656 627 | 51.41 | 51.41 |
| | Permit 91 | I | 360 708 | 3 080 905 | 13 475 438 | 122 698 067 | 36.09 | 40.28 |
| **Subtotal Firm and Interruptible Exports: New Brunswick** | | | **407 462** | **3 526 454** | **16 465 481** | **148 751 104** | **38.69** | **42.33** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | Permit 84 | F | 23 670 | 203 176 | 644 757 | 5 469 870 | 27.24 | 26.83 |
| | Permit 85 | S | 5 048 | 80 532 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | Permit 82 | I | 1 993 | 8 774 | 45 257 | 187 525 | 22.71 | 22.79 |
| | Permit 83 | S | 27 463 | 178 957 | 0 | 0 | 0.00 | 0.00 |
| D&W Subway | Permit 26 | F | 140 | 1 311 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | Permit 21 | I | 290 960 | 2 115 188 | 6 386 834 | 106 376 455 | 13.08 | 40.69 |
| | | S | 14 972 | 64 741 | 0 | 421 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type

| Source | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Ontario Hydro | Permit 22 | N | 222 477 | 2 096 851 | 0 | 0 | 0.00 | 0.00 |
| | Permit 24 | F | 12 | 136 | 24 | 272 | 2.00 | 2.00 |
| **Subtotal Firm and Interruptible Exports: Ontario** | | | **316 774** | **2 328 585** | **7 076 871** | **112 034 122** | **14.19** | **39.19** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | Licence 176 | F | 617 130 | 4 548 007 | 22 081 514 | 154 079 210 | 35.78 | 33.70 |
| | Licence 178 | F | 265 690 | 1 811 720 | 13 252 584 | 75 748 824 | 43.19 | 35.84 |
| | Licence 180 | F | 85 930 | 703 811 | 8 986 774 | 75 034 930 | 39.39 | 37.16 |
| | Licence 181 | F | 26 816 | 257 736 | 2 698 923 | 37 649 932 | 39.39 | 35.99 |
| | Licence 182 | F | 14 142 | 122 420 | 1 363 437 | 11 634 832 | 39.39 | 37.54 |
| | Licence 183 | F | 21 504 | 168 666 | 2 348 689 | 19 430 515 | 39.39 | 37.50 |
| | Licence 184 | F | 8 640 | 93 124 | 1 138 898 | 10 464 201 | 39.39 | 37.53 |
| | Permit 20 | F | 0 | 898 | 0 | 62 884 | 0.00 | 70.98 |
| | Permit 64 | I | 19 638 | 601 958 | 833 418 | 24 528 743 | 41.63 | 38.58 |
| | | N | 5 495 | 31 682 | 0 | 0 | 0.00 | 0.00 |
| | | S | 7 350 | 344 336 | 0 | 0 | 0.00 | 0.00 |
| | Permit 65 | F | 6 930 | 2 020 280 | 801 582 | 82 420 958 | 35.78 | 38.80 |
| | | S | 0 | 3 950 | 0 | 0 | 0.00 | 0.00 |
| Maclaren Ind. | Permit 111 | I | 0 | 3 205 | 0 | 156 862 | 0.00 | 48.94 |
| **Subtotal Firm and Interruptible Exports: Quebec** | | | **1 066 420** | **10 331 825** | **53 505 818** | **491 211 890** | **38.26** | **35.85** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type

| Source | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Saskatchewan** | | | | | | | | |
| Sask. Power | Licence 118 | S | 10 250 | 66 250 | 0 | 0 | 0.00 | 0.00 |
| | Licence 119 | I | 6 189 | 59 250 | 273 209 | 2 258 517 | 44.14 | 37.60 |
| | | N | -8 388 | -15 908 | 0 | 0 | 0.00 | 0.00 |
| | Permit 89 | F | 10 968 | 130 277 | 504 658 | 5 184 681 | 46.01 | 39.14 |
| **Subtotal Firm and Interruptible Exports: Saskatchewan** | | | **17 157** | **189 527** | **777 867** | **7 443 197** | **45.34** | **38.66** |
| **Total Firm and Interruptible Exports:** | | | **3 850 441** | **31 700 406** | **165 374 991** | **1 279 937 772** | **36.78** | **32.54** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | - | P | 0 | 23 021 | 0 | 563 161 | 0.00 | 24.46 |
| TransAlta | | P | 243 | 2 186 | 9 485 | 87 541 | 38.98 | 40.19 |
| TransAlta Ener. | | P | 16 531 | 142 902 | 632 931 | 3 266 169 | 38.29 | 22.86 |
| TransCanada | | P | 0 | 2 202 | 0 | 55 595 | 0.00 | 26.03 |
| **Subtotal Purchased Imports: Alberta** | | | **16 774** | **170 311** | **642 416** | **3 972 466** | **38.30** | **23.42** |
| **British Columbia** | | | | | | | | |
| BC Hydro | | P | 39 | 233 | 2 693 | 15 772 | 69.05 | 68.68 |
| BC Hydro/Powerx | | P | 370 615 | 3 420 543 | 12 862 756 | 68 064 514 | 34.71 | 20.01 |
| West Kootenay | | P | 0 | 83 942 | 0 | 2 570 010 | 0.00 | 24.42 |
| **Subtotal Purchased Imports: British Columbia** | | | **370 654** | **3 504 718** | **12 865 449** | **70 650 296** | **34.71** | **20.19** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 2B

## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | - | N | - 188 927 | - 364 951 | 0 | 0 | 0.00 | 0.00 |
| | | P | 199 209 | 323 596 | 4 779 467 | 8 261 837 | 23.96 | 24.50 |
| **Subtotal Purchased Imports: Manitoba** | | | **199 209** | **323 596** | **4 779 467** | **8 261 837** | **23.96** | **24.50** |
| **New Brunswick** | | | | | | | | |
| Maine & NB | | P | 0 | 4 357 | 0 | 187 709 | 0.00 | 44.75 |
| NB Power | | N | 7 155 | 58 848 | 0 | 0 | 0.00 | 0.00 |
| | | P | 0 | 3 682 | 0 | 49 785 | 0.00 | 13.52 |
| | | S | 2 524 | 39 200 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: New Brunswick** | | | **0** | **8 039** | **0** | **237 494** | **0.00** | **32.93** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | | N | 707 | 6 103 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | | P | 646 | 6 688 | 35 510 | 840 745 | 54.97 | 133.13 |
| | | S | 27 463 | 178 957 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type



| Destination | Authorization | Exchange Type | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$) [1] SEP98 | Revenue (CAN$) [1] JAN98 - SEP98 | CAN$/MW.h [2] SEP98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| D&W Subway | - | P | 125 | 1 179 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | | P | 12 242 | 12 242 | 395 290 | 395 290 | 32.29 | 32.35 |
| Ontario Hydro | | N | 223 475 | 2 093 966 | 0 | 0 | 0.00 | 0.00 |
| | | P | 270 842 | 3 030 316 | 10 362 956 | 46 438 543 | 38.26 | 22.58 |
| | | S | 90 552 | 303 223 | 83 322 | 288 274 | 0.92 | 0.94 |
| **Subtotal Purchased Imports: Ontario** | | | **283 855** | **3 050 425** | **10 793 756** | **47 674 579** | **38.03** | **22.80** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | | N | 664 | 64 247 | 0 | 0 | 0.00 | 0.00 |
| | | P | 65 592 | 707 660 | 6 168 501 | 51 140 002 | 36.28 | 33.80 |
| | | S | 186 412 | 438 992 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Quebec** | | | **65 592** | **707 660** | **6 168 501** | **51 140 002** | **36.28** | **33.80** |
| **Saskatchewan** | | | | | | | | |
| Sask. Power | | N | -7 609 | -36 358 | 0 | 0 | 0.00 | 0.00 |
| | | P | 48 291 | 228 161 | 1 409 489 | 6 401 955 | 29.19 | 25.62 |
| | | S | 0 | 40 000 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Saskatchewan** | | | **48 291** | **228 161** | **1 409 489** | **6 401 955** | **29.19** | **25.62** |
| **Total Purchased Imports:** | | | **984 375** | **7 992 910** | **36 659 079** | **188 338 629** | **33.39** | **23.02** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 3A
## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$)[1] SEP98 | Revenue (CAN$)[1] JAN98 - SEP98 | CAN$/MW.h[2] SEP98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Alaska** | British Columbia | 87 | 727 | 2 210 | 36 699 | 25.51 | 54.83 |
| **Subtotal Exports: Alaska** | | **87** | **727** | **2 210** | **36 699** | **25.51** | **54.83** |
| **Arizona** | British Columbia | 0 | 4 000 | 0 | 117 972 | 0.00 | 29.49 |
| **Subtotal Exports: Arizona** | | **0** | **4 000** | **0** | **117 972** | **0.00** | **29.49** |
| **California** | British Columbia | 283 103 | 1 061 562 | 19 343 196 | 63 755 125 | 68.33 | 48.59 |
| **Subtotal Exports: California** | | **283 103** | **1 061 562** | **19 343 196** | **63 755 125** | **68.33** | **48.59** |
| **Idaho** | British Columbia | 17 254 | 128 825 | 941 467 | 5 523 159 | 54.57 | 38.31 |
| **Subtotal Exports: Idaho** | | **17 254** | **128 825** | **941 467** | **5 523 159** | **54.57** | **38.31** |
| **Iowa** | Manitoba | 514 | 106 005 | 29 633 | 2 014 070 | 57.65 | 18.13 |
| **Subtotal Exports: Iowa** | | **514** | **106 005** | **29 633** | **2 014 070** | **57.65** | **18.13** |
| **Kansas** | Manitoba | 1 350 | 3 525 | 69 581 | 104 524 | 51.54 | 29.65 |
| **Subtotal Exports: Kansas** | | **1 350** | **3 525** | **69 581** | **104 524** | **51.54** | **29.65** |
| **Maine** | New Brunswick | 407 462 | 3 526 454 | 16 465 481 | 148 751 104 | 38.69 | 42.33 |
| **Subtotal Exports: Maine** | | **407 462** | **3 526 454** | **16 465 481** | **148 751 104** | **38.69** | **42.33** |
| **Michigan** | Ontario | 282 998 | 1 986 278 | 5 897 611 | 97 192 005 | 12.45 | 40.09 |
| **Subtotal Exports: Michigan** | | **282 998** | **1 986 278** | **5 897 611** | **97 192 005** | **12.45** | **40.09** |
| **Minnesota** | Manitoba | 701 738 | 7 255 795 | 26 480 469 | 238 571 081 | 28.29 | 23.65 |
| | Ontario | 4 220 | 47 817 | 349 539 | 4 255 974 | 33.65 | 68.30 |
| | Saskatchewan | 3 956 | 7 094 | 178 597 | 266 233 | 45.15 | 37.53 |
| **Subtotal Exports: Minnesota** | | **709 914** | **7 310 706** | **27 008 605** | **243 093 287** | **28.42** | **23.88** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A
## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$)[1] SEP98 | Revenue (CAN$)[1] JAN98 - SEP98 | CAN$/MW.h[2] SEP98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Missouri** | Manitoba | 145 | 496 | 7 874 | 17 914 | 54.30 | 26.39 |
| **Subtotal Exports: Missouri** | | **145** | **496** | **7 874** | **17 914** | **54.30** | **26.39** |
| **Montana** | British Columbia | 4 131 | 23 911 | 310 982 | 1 226 383 | 75.28 | 46.27 |
| | Manitoba | 59 | 409 | 3 204 | 18 148 | 54.31 | 44.37 |
| **Subtotal Exports: Montana** | | **4 190** | **24 320** | **314 187** | **1 244 532** | **74.98** | **46.25** |
| **Nebraska** | Manitoba | 3 097 | 27 073 | 159 640 | 721 607 | 51.55 | 26.69 |
| **Subtotal Exports: Nebraska** | | **3 097** | **27 073** | **159 640** | **721 607** | **51.55** | **26.69** |
| **New England** | Ontario | 400 | 35 469 | 9 748 | 825 152 | 24.37 | 23.26 |
| | Quebec | 617 130 | 6 727 899 | 22 081 514 | 236 288 002 | 35.78 | 35.23 |
| **Subtotal Exports: New England** | | **617 530** | **6 763 368** | **22 091 261** | **237 113 154** | **35.77** | **35.18** |
| **New York** | Ontario | 29 047 | 249 815 | 815 592 | 9 140 521 | 28.08 | 29.33 |
| | Quebec | 278 965 | 2 027 190 | 13 964 910 | 86 957 555 | 43.68 | 37.41 |
| **Subtotal Exports: New York** | | **308 012** | **2 277 005** | **14 780 502** | **96 098 076** | **42.21** | **36.53** |
| **North Dakota** | Manitoba | 17 639 | 121 429 | 948 097 | 5 568 964 | 32.12 | 29.14 |
| | Saskatchewan | 6 267 | 79 461 | 276 879 | 3 742 085 | 44.18 | 45.75 |
| **Subtotal Exports: North Dakota** | | **23 906** | **200 890** | **1 224 976** | **9 311 048** | **35.28** | **34.24** |
| **Oregon** | Alberta | 0 | 712 | 0 | 17 194 | 0.00 | 18.69 |
| | British Columbia | 65 392 | 447 381 | 2 175 937 | 12 977 682 | 33.28 | 28.12 |
| **Subtotal Exports: Oregon** | | **65 392** | **448 093** | **2 175 937** | **12 994 875** | **33.28** | **27.93** |
| **Pennsylvania** | Ontario | 110 | 9 206 | 4 382 | 620 471 | 39.84 | 66.95 |
| **Subtotal Exports: Pennsylvania** | | **110** | **9 206** | **4 382** | **620 471** | **39.84** | **66.95** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source

| Destination | Source | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$)[1] SEP98 | Revenue (CAN$)[1] JAN98 - SEP98 | CAN$/MW.h[2] SEP98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **South Dakota** | Manitoba | 0 | 22 369 | 0 | 478 934 | 0.00 | 21.37 |
| **Subtotal Exports: South Dakota** | | **0** | **22 369** | **0** | **478 934** | **0.00** | **21.37** |
| **Texas** | Manitoba | 80 070 | 665 468 | 2 845 290 | 19 591 704 | 25.95 | 22.50 |
| **Subtotal Exports: Texas** | | **80 070** | **665 468** | **2 845 290** | **19 591 704** | **25.95** | **22.50** |
| **Vermont** | Quebec | 170 325 | 1 576 736 | 17 459 394 | 167 966 333 | 38.39 | 36.63 |
| **Subtotal Exports: Vermont** | | **170 325** | **1 576 736** | **17 459 394** | **167 966 333** | **38.39** | **36.63** |
| **Washington** | Alberta | 1 600 | 53 751 | 51 408 | 1 062 164 | 32.13 | 16.78 |
| | British Columbia | 818 233 | 4 726 396 | 32 835 501 | 153 326 630 | 40.13 | 29.68 |
| | Saskatchewan | 6 934 | 102 972 | 322 391 | 3 434 880 | 46.49 | 33.56 |
| **Subtotal Exports: Washington** | | **826 767** | **4 883 119** | **33 209 300** | **157 823 674** | **40.17** | **29.51** |
| **Wisconsin** | Manitoba | 48 216 | 674 180 | 1 344 465 | 15 367 503 | 28.27 | 22.35 |
| **Subtotal Exports: Wisconsin** | | **48 216** | **674 180** | **1 344 465** | **15 367 503** | **28.27** | **22.35** |
| **Total Exports** | | **3 850 441** | **31 700 406** | **165 374 991** | **1 279 937 772** | **36.78** | **32.54** |

Footnotes:
1. Includes capacity and energy charges
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B
## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$)[1] SEP98 | Revenue (CAN$)[1] JAN98 - SEP98 | CAN$/MW.h[2] SEP98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Idaho** | Alberta | 0 | 50 | 0 | 4 697 | 0.00 | 93.95 |
| **Subtotal Imports: Idaho** | | **0** | **50** | **0** | **4 697** | **0.00** | **93.95** |
| **Iowa** | Manitoba | 4 530 | 7 714 | 156 008 | 344 968 | 34.44 | 44.72 |
| **Subtotal Imports: Iowa** | | **4 530** | **7 714** | **156 008** | **344 968** | **34.44** | **44.72** |
| **Maine** | New Brunswick | 0 | 8 039 | 0 | 237 494 | 0.00 | 32.93 |
| **Subtotal Imports: Maine** | | **0** | **8 039** | **0** | **237 494** | **0.00** | **32.93** |
| **Michigan** | Ontario | 134 744 | 2 501 535 | 4 677 147 | 30 309 444 | 34.71 | 20.58 |
| **Subtotal Imports: Michigan** | | **134 744** | **2 501 535** | **4 677 147** | **30 309 444** | **34.71** | **20.58** |
| **Minnesota** | Manitoba | 169 353 | 266 146 | 3 894 846 | 6 478 874 | 23.00 | 24.00 |
| | Ontario | 3 725 | 49 205 | 97 814 | 1 399 017 | 26.26 | 24.82 |
| | Saskatchewan | 0 | 200 | 0 | 11 742 | 0.00 | 58.71 |
| **Subtotal Imports: Minnesota** | | **173 078** | **315 551** | **3 992 660** | **7 889 633** | **23.07** | **24.28** |
| **Missouri** | Manitoba | 0 | 14 | 0 | 1 768 | 0.00 | 126.29 |
| **Subtotal Imports: Missouri** | | **0** | **14** | **0** | **1 768** | **0.00** | **126.29** |
| **Montana** | Alberta | 243 | 3 098 | 9 485 | 128 342 | 38.98 | 41.27 |
| | British Columbia | 39 | 233 | 2 693 | 15 772 | 69.05 | 68.68 |
| **Subtotal Imports: Montana** | | **282** | **3 331** | **12 178** | **144 114** | **43.13** | **43.06** |
| **Nebraska** | Manitoba | 3 456 | 4 105 | 82 570 | 227 061 | 22.13 | 36.84 |
| **Subtotal Imports: Nebraska** | | **3 456** | **4 105** | **82 570** | **227 061** | **22.13** | **36.84** |
| **New England** | Quebec | 0 | 11 331 | 0 | 1 351 091 | 0.00 | 117.71 |
| **Subtotal Imports: New England** | | **0** | **11 331** | **0** | **1 351 091** | **0.00** | **117.71** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B

## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$)[1] SEP98 | Revenue (CAN$)[1] JAN98 - SEP98 | CAN$/MW.h[2] SEP98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **New York** | Ontario | 133 144 | 478 068 | 5 623 504 | 15 141 648 | 42.24 | 31.62 |
| | Quebec | 53 368 | 684 105 | 1 898 023 | 22 318 517 | 35.56 | 32.71 |
| **Subtotal Imports: New York** | | **186 512** | **1 162 173** | **7 521 527** | **37 460 166** | **40.33** | **32.16** |
| **North Dakota** | Manitoba | 1 295 | 2 040 | 19 978 | 39 610 | 15.43 | 19.42 |
| | Saskatchewan | 48 291 | 206 027 | 1 409 489 | 5 570 494 | 29.19 | 24.67 |
| **Subtotal Imports: North Dakota** | | **49 586** | **208 067** | **1 429 466** | **5 610 103** | **28.83** | **24.63** |
| **Oregon** | Alberta | 10 092 | 102 232 | 381 536 | 2 166 776 | 37.81 | 21.19 |
| | British Columbia | 0 | 110 | 0 | 3 124 | 0.00 | 28.40 |
| **Subtotal Imports: Oregon** | | **10 092** | **102 342** | **381 536** | **2 169 900** | **37.81** | **21.20** |
| **Pennsylvania** | Ontario | 12 242 | 21 617 | 395 290 | 824 469 | 32.29 | 38.04 |
| **Subtotal Imports: Pennsylvania** | | **12 242** | **21 617** | **395 290** | **824 469** | **32.29** | **38.04** |
| **South Dakota** | Alberta | 650 | 3 225 | 25 666 | 124 188 | 39.49 | 38.51 |
| | Manitoba | 17 700 | 39 294 | 549 286 | 896 574 | 31.03 | 22.76 |
| **Subtotal Imports: South Dakota** | | **18 350** | **42 519** | **574 952** | **1 020 762** | **31.33** | **23.95** |
| **Texas** | Manitoba | 0 | 0 | 0 | 160 579 | 0.00 | 0.00 |
| **Subtotal Imports: Texas** | | **0** | **0** | **0** | **160 579** | **0.00** | **0.00** |
| **Vermont** | Quebec | 12 224 | 12 224 | 4 270 479 | 27 470 393 | 39.39 | 39.39 |
| **Subtotal Imports: Vermont** | | **12 224** | **12 224** | **4 270 479** | **27 470 393** | **39.39** | **39.39** |
| **Washington** | Alberta | 5 789 | 61 706 | 225 729 | 1 548 463 | 38.99 | 25.14 |
| | British Columbia | 370 615 | 3 504 375 | 12 862 756 | 70 631 400 | 34.71 | 20.19 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B

## Import Purchases Summary Report by Source and Destination

| Source | Destination | Energy (MW.h) SEP98 | Energy (MW.h) JAN98 - SEP98 | Revenue (CAN$)[1] SEP98 | Revenue (CAN$)[1] JAN98 - SEP98 | CAN$/MW.h[2] SEP98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Washington** | Saskatchewan | 0 | 21 934 | 0 | 819 719 | 0.00 | 36.36 |
| **Subtotal Imports: Washington** | | **376 404** | **3 588 015** | **13 088 485** | **72 999 582** | **34.77** | **20.37** |
| **Wisconsin** | Manitoba | 2 875 | 4 283 | 76 779 | 112 403 | 26.71 | 26.24 |
| **Subtotal Imports: Wisconsin** | | **2 875** | **4 283** | **76 779** | **112 403** | **26.71** | **26.24** |
| **Total Imports** | | **984 375** | **7 992 910** | **36 659 079** | **188 338 629** | **33.39** | **23.02** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 4
## Source of Production Report [1]
## Canadian Exports

| | SEP98 | | |
|---|---|---|---|
| **Fuel Type** | **Energy (MW.h)** | **Revenue (CAN$)** [2] | **CAN$/MW.h** [2] |
| Canadian Coal | 14 336 | 536 369 | 37.41 |
| Canadian Oil | 160 | 9 088 | 56.98 |
| Hydraulic | 2 352 764 | 91 809 354 | 39.02 |
| Imported Coal | 251 943 | 3 336 263 | 13.24 |
| Imported Oil | 314 922 | 10 496 969 | 33.33 |
| Nuclear | 3 128 | 128 440 | 41.06 |
| Other | 840 910 | 32 031 856 | 38.09 |
| **Total** | **3 778 162** | **138 348 337** | **36.62** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 5
## Source of Production Report [1]
## by Exporter

| Exporter | Fuel Type | Authorization | SEP98 Energy (MW.h) | SEP98 Revenue (CAN$) [2] | SEP98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| BC Hydro/Powerx | Hydraulic | Permit 43 | 623 412 | 31 825 483 | 51.05 |
| | | **Subtotal** | **623 412** | **31 825 483** | **51.05** |
| | Other | Permit 43 | 419 105 | 21 395 512 | 51.05 |
| | | Permit 44 | 28 855 | 821 189 | 28.46 |
| | | **Subtotal** | **447 960** | **22 216 701** | **49.60** |
| | **Subtotal** | | **1 071 372** | **54 042 184** | **50.44** |
| Cominco | Hydraulic | Permit 57 | 11 430 | 702 272 | 61.44 |
| | | **Subtotal** | **11 430** | **702 272** | **61.44** |
| | **Subtotal** | | **11 430** | **702 272** | **61.44** |
| Hydro-Quebec | Hydraulic | Licence 176 | 617 130 | 22 081 514 | 35.78 |
| | | Licence 178 | 265 690 | 11 474 002 | 43.19 |
| | | Licence 180 | 85 930 | 3 384 478 | 39.39 |
| | | Licence 181 | 26 816 | 1 056 187 | 39.39 |
| | | Licence 182 | 14 142 | 557 003 | 39.39 |
| | | Licence 183 | 21 504 | 846 966 | 39.39 |
| | | Licence 184 | 8 640 | 340 299 | 39.39 |
| | | Permit 64 | 19 638 | 817 444 | 41.63 |
| | | Permit 65 | 6 930 | 247 962 | 35.78 |
| | | **Subtotal** | **1 066 420** | **40 805 856** | **38.26** |
| | **Subtotal** | | **1 066 420** | **40 805 856** | **38.26** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 5
## Source of Production Report [1]
## by Exporter

| Exporter | Fuel Type | Authorization | SEP98 Energy (MW.h) | SEP98 Revenue (CAN$) [2] | SEP98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Manitoba Hydro** | Hydraulic | Licence 170 | 246 777 | 6 747 902 | 27.34 |
| | | Permit 33 | 33 600 | 706 504 | 21.03 |
| | | Permit 34 | 16 800 | 370 427 | 22.05 |
| | | Permit 35 | 33 120 | 877 842 | 26.51 |
| | | Permit 46 | 296 140 | 9 086 233 | 30.68 |
| | | Permit 52 | 6 005 | 157 604 | 26.25 |
| | | Permit 68 | 11 259 | 291 528 | 25.89 |
| | | **Subtotal** | **643 701** | **18 238 040** | **28.33** |
| | Other | Licence 170 | 19 739 | 539 746 | 27.34 |
| | | Permit 45 | 189 148 | 5 337 990 | 28.22 |
| | | **Subtotal** | **208 887** | **5 877 736** | **28.14** |
| | **Subtotal** | | **852 588** | **24 115 776** | **28.29** |
| **NB Power** | Canadian Coal | Permit 18 | 279 | 13 641 | 48.91 |
| | | Permit 47 | 261 | 13 433 | 51.41 |
| | | Permit 91 | 13 796 | 509 294 | 36.92 |
| | | **Subtotal** | **14 336** | **536 369** | **37.41** |
| | Canadian Oil | Permit 16 | 160 | 9 088 | 56.98 |
| | | **Subtotal** | **160** | **9 088** | **56.98** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | SEP98 Energy (MW.h) | SEP98 Revenue (CAN$) [2] | SEP98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **NB Power** | Imported Coal | Permit 16 | 873 | 50 412 | 57.77 |
| | | Permit 18 | 314 | 15 343 | 48.91 |
| | | Permit 47 | 3 019 | 155 191 | 51.41 |
| | | Permit 91 | 62 167 | 2 271 899 | 36.55 |
| | | **Subtotal** | **66 372** | **2 492 846** | **37.56** |
| | Imported Oil | Permit 16 | 6 653 | 376 567 | 56.60 |
| | | Permit 18 | 2 625 | 128 395 | 48.91 |
| | | Permit 47 | 962 | 49 431 | 51.41 |
| | | Permit 91 | 210 348 | 7 474 452 | 35.53 |
| | | **Subtotal** | **220 587** | **8 028 845** | **36.40** |
| | Nuclear | Permit 47 | 860 | 44 192 | 51.41 |
| | | Permit 91 | 2 268 | 84 248 | 37.14 |
| | | **Subtotal** | **3 128** | **128 440** | **41.06** |
| | Other | Permit 16 | 79 | 4 474 | 56.56 |
| | | Permit 18 | 382 | 18 698 | 48.91 |
| | | Permit 47 | 1 308 | 67 239 | 51.41 |
| | | Permit 91 | 72 129 | 2 677 774 | 37.13 |
| | | **Subtotal** | **73 899** | **2 768 186** | **37.46** |
| | **Subtotal** | | **378 481** | **13 963 773** | **36.89** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | SEP98 Energy (MW.h) | SEP98 Revenue (CAN$) [2] | SEP98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Ont. Hydro/OHHM** | Hydraulic | Permit 21 | 7 801 | 237 702 | 30.47 |
| | | **Subtotal** | **7 801** | **237 702** | **30.47** |
| | Imported Coal | Permit 21 | 185 571 | 843 417 | 4.55 |
| | | **Subtotal** | **185 571** | **843 417** | **4.54** |
| | Imported Oil | Permit 21 | 94 335 | 2 468 124 | 26.16 |
| | | **Subtotal** | **94 335** | **2 468 124** | **26.16** |
| | Other | Permit 21 | 3 253 | 255 200 | 78.45 |
| | | **Subtotal** | **3 253** | **255 200** | **78.45** |
| | **Subtotal** | | **290 960** | **3 804 443** | **13.08** |
| **Powerex** | Other | Permit 71 | 8 791 | 366 476 | 41.69 |
| | | Permit 92 | 82 800 | 0 | 0.00 |
| | | Permit 95 | 13 720 | 496 151 | 36.16 |
| | | **Subtotal** | **105 311** | **862 626** | **8.19** |
| | **Subtotal** | | **105 311** | **862 626** | **8.19** |
| **TransAlta Ener.** | Other | Permit 74 | 1 600 | 51 408 | 32.13 |
| | | **Subtotal** | **1 600** | **51 408** | **32.13** |
| | **Subtotal** | | **1 600** | **51 408** | **32.13** |
| **Total All Exporters** | | | **3 778 162** | **138 348 337** | **36.62** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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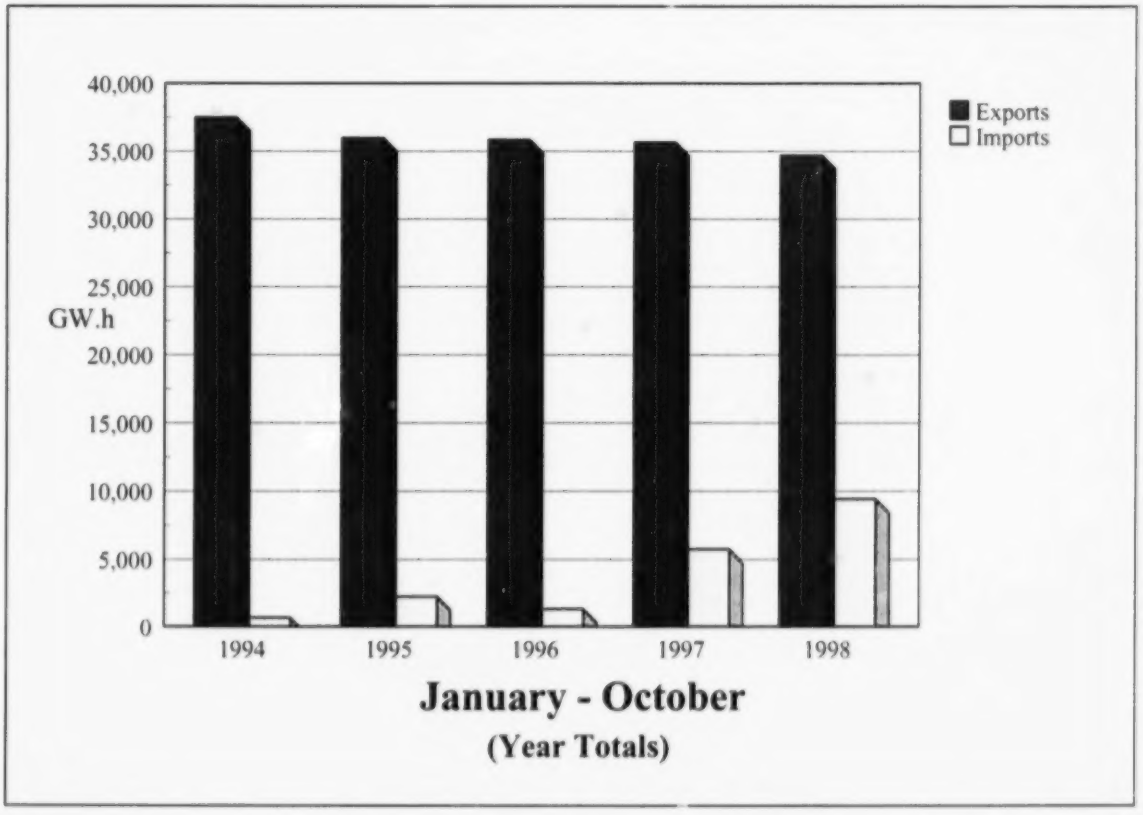
# Electricity Exports and Imports

## Monthly Statistics for:

## October 1998

Exports: **3005** GW.h
Imports: **1423** GW.h



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# TABLE 1
## Exports and Imports of Electricity
## Summary: Canada
## OCTOBER 1998



| | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|
| **Exports of Electric Energy** | Firm | 1 388 468 | 17 175 054 | 64 745 237 | 752 538 669 | 31 33 | 31.34 |
| | Interruptible | 1 616 410 | 17 530 230 | 53 515 859 | 645 815 078 | 32.66 | 34.21 |
| | Non-Revenue/Inadvertant | - 157 373 | 1 774 558 | 0 | 0 | 0.00 | 0.00 |
| | Service | 47 889 | 825 855 | 129 | 550 | 0.00 | 0.00 |
| **Total Exports** | | **2 895 395** | **37 305 697** | **118 261 225** | **1 398 354 297** | **33.26** | **30.61** |
| Total Sales - Firm and Interruptible | | 3 004 878 | 34 705 284 | 118 261 096 | 1 398 353 747 | 32.05 | 32.84 |
| **Imports of Electric Energy** | Non-Revenue/Inadvertant | - 180 019 | 1 641 836 | 0 | 0 | 0.00 | 0.00 |
| | Purchase | 1 422 534 | 9 415 444 | 50 169 885 | 238 508 514 | 33.24 | 23.58 |
| | Service | 372 023 | 1 372 395 | 26 094 | 314 368 | 0.07 | 0.25 |
| **Total Imports** | | **1 614 538** | **12 429 675** | **50 195 979** | **238 822 882** | **29.31** | **18.02** |
| **Excess of Exports Over Imports** | | **1 280 857** | **24 876 022** | **68 065 246** | **1 159 531 415** | | |

**Number of Export Licences:** 17
**Number of Export Permits/Orders:** 86
103

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

*For further information, contact:*
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*Research Officer,*
*Energy Commodities Branch*
*National Energy Board*
*(403) 299 - 3171*

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | Permit 98 | I | 0 | 887 | 0 | 15 504 | 0.00 | 17.48 |
| TransAlta Ener. | Permit 73 | I | 0 | 150 | 0 | 2 349 | 0.00 | 15.66 |
| | Permit 74 | F | 1 345 | 54 771 | 62 680 | 1 124 185 | 46.60 | 17.57 |
| **Subtotal Firm and Interruptible Exports: Alberta** | | | **1 345** | **55 808** | **62 680** | **1 142 037** | **46.60** | **17.57** |
| **British Columbia** | | | | | | | | |
| BC Hydro | Permit 105 | F | 75 | 802 | 8 519 | 45 218 | 113.04 | 54.95 |
| | Treaty | N | 12 362 | 265 837 | 0 | 0 | 0.00 | 0.00 |
| BC Hydro/Powerx | Permit 43 | I | 0 | 5 489 294 | 0 | 224 550 228 | 0.00 | 36.95 |
| | Permit 44 | F | 0 | 179 632 | 0 | 4 912 349 | 0.00 | 27.87 |
| Cominco | Permit 57 | I | 27 381 | 181 550 | 1 295 779 | 6 357 946 | 47.32 | 33.02 |
| Powerex | Permit 71 | F | 8 610 | 25 650 | 362 835 | 1 083 626 | 42.14 | 42.25 |
| | Permit 92 | F | 85 675 | 591 800 | 0 | 0 | 0.00 | 0.00 |
| | Permit 95 | F | 14 740 | 60 535 | 540 967 | 2 376 000 | 36.70 | 38.87 |
| | Permit 116 | I | 200 | 200 | 8 869 | 8 869 | 44.35 | 44.35 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Powerex | Permit 118 | I | 1 000 372 | 1 000 372 | 32 182 292 | 32 182 292 | 32.17 | 32.17 |
| | Permit 119 | F | 23 840 | 23 840 | 559 792 | 559 792 | 23.48 | 23.48 |
| West Kootenay | Permit 13 | F | 0 | 20 | 0 | 1 262 | 0.00 | 61.90 |
| **Subtotal Firm and Interruptible Exports: British Columbia** | | | **1 160 893** | **7 553 695** | **34 959 053** | **272 077 582** | **30.11** | **33.48** |
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | Licence 170 | F | 280 650 | 2 775 416 | 13 948 459 | 134 431 088 | 25.74 | 24.31 |
| | Permit 33 | F | 37 038 | 176 231 | 787 267 | 3 696 838 | 21.26 | 21.01 |
| | Permit 34 | F | 21 600 | 145 900 | 481 445 | 3 210 998 | 22.29 | 22.01 |
| | Permit 35 | F | 23 846 | 120 556 | 638 911 | 3 227 979 | 26.79 | 26.27 |
| | Permit 45 | F | 162 862 | 1 738 709 | 5 626 975 | 50 712 225 | 28.83 | 25.15 |
| | Permit 46 | I | 380 658 | 4 713 085 | 11 445 683 | 114 181 202 | 30.05 | 23.64 |
| | | N | - 294 200 | - 671 231 | 0 | 0 | 0.00 | 0.00 |
| | Permit 52 | F | 5 950 | 28 264 | 330 619 | 1 595 606 | 26.53 | 26.25 |
| | Permit 61 | F | 323 | 3 520 | 15 289 | 163 649 | 47.36 | 46.00 |
| | Permit 68 | F | 8 891 | 96 886 | 526 219 | 5 035 732 | 26.22 | 22.95 |
| **Subtotal Firm and Interruptible Exports: Manitoba** | | | **921 818** | **9 798 567** | **33 800 867** | **316 255 318** | **27.85** | **24.06** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type

| Source | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **New Brunswick** | | | | | | | | |
| Fraser Inc. | Permit 102 | F | 24 285 | 260 325 | 1 675 441 | 17 257 516 | 68.99 | 66.17 |
| Maine & NB | Licence 177 | F | 2 271 | 82 712 | 122 239 | 2 206 485 | 16.40 | 16.40 |
| NB Power | Permit 15 | I | 2 198 | 3 731 | 57 524 | 201 976 | 26.17 | 45.22 |
| | | N | -21 | 158 | 0 | 0 | 0.00 | 0.00 |
| | Permit 16 | I | 16 546 | 56 009 | 920 826 | 3 210 226 | 55.65 | 51.99 |
| | | N | 1 354 | -56 000 | 0 | 0 | 0.00 | 0.00 |
| | Permit 17 | S | 5 129 | 44 329 | 0 | 0 | 0.00 | 0.00 |
| | Permit 18 | I | 11 | 26 628 | 930 | 1 294 364 | 84.55 | 49.54 |
| | | N | 21 | 57 | 0 | 0 | 0.00 | 0.00 |
| | Permit 28 | F | 2 | 25 | 274 | 3 078 | 113.90 | 118.43 |
| | Permit 47 | F | 6 703 | 68 135 | 529 009 | 5 185 636 | 52.90 | 51.53 |
| | Permit 90 | F | 9 672 | 9 672 | 328 219 | 328 219 | 33.94 | 33.94 |
| | Permit 91 | I | 169 106 | 3 250 011 | 7 082 804 | 129 780 871 | 38.96 | 40.07 |
| **Subtotal Firm and Interruptible Exports: New Brunswick** | | | **230 794** | **3 757 248** | **10 717 267** | **159 468 371** | **43.17** | **42.21** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | Permit 84 | F | 28 932 | 232 108 | 1 205 345 | 6 675 216 | 41.66 | 28.44 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Cdn. Niagara | Permit 85 | S | 5 291 | 85 823 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | Permit 82 | I | 2 395 | 11 169 | 55 542 | 243 068 | 23.19 | 22.35 |
| | Permit 83 | S | 25 695 | 204 652 | 0 | 0 | 0.00 | 0.00 |
| D&W Subway | Permit 26 | F | 146 | 1 457 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | Permit 21 | I | 8 198 | 2 123 386 | 326 401 | 106 702 855 | 15.25 | 40.41 |
| | | S | 8 542 | 73 283 | 129 | 550 | 0.02 | 0.01 |
| Ontario Hydro | Permit 22 | N | 133 132 | 2 229 983 | 0 | 0 | 0.00 | 0.00 |
| | Permit 24 | F | 14 | 151 | 29 | 301 | 2.00 | 2.00 |
| | Permit 25 | F | 38 | 38 | 641 | 641 | 8.02 | 31.16 |
| **Subtotal Firm and Interruptible Exports: Ontario** | | | **39 724** | **2 368 309** | **1 587 958** | **113 622 080** | **34.90** | **38.96** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | Licence 176 | F | 380 228 | 4 928 235 | 13 816 877 | 167 896 087 | 36.34 | 33.97 |
| | Licence 178 | F | 120 | 1 811 840 | 1 792 911 | 77 541 735 | 50.21 | 35.96 |
| | Licence 180 | F | 64 682 | 768 493 | 8 276 855 | 83 311 786 | 40.00 | 37.57 |
| | Licence 181 | F | 21 532 | 279 268 | 2 529 609 | 40 179 541 | 40.00 | 36.32 |
| | Licence 182 | F | 14 349 | 136 769 | 1 392 958 | 13 027 789 | 40.00 | 37.96 |
| | Licence 183 | F | 20 587 | 189 253 | 2 348 598 | 21 779 114 | 40.00 | 37.98 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type

| Source | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Hydro-Quebec | Licence 184 | F | 5 860 | 98 984 | 1 045 440 | 11 509 641 | 40.00 | 37.89 |
| | Permit 20 | F | 147 | 1 045 | 11 030 | 73 914 | 75.04 | 71.10 |
| | Permit 64 | I | 5 045 | 607 003 | 40 288 | 24 569 031 | 4.77 | 38.78 |
| | | N | 2 411 | 34 093 | 0 | 0 | 0.00 | 0.00 |
| | | S | 3 232 | 347 568 | 0 | 0 | 0.00 | 0.00 |
| | Permit 65 | F | 133 454 | 2 153 734 | 5 779 785 | 88 200 743 | 39.12 | 38.86 |
| | | S | 0 | 3 950 | 0 | 0 | 0.00 | 0.00 |
| Maclaren Ind. | Permit 111 | I | 0 | 3 205 | 0 | 156 862 | 0.00 | 48.94 |
| **Subtotal Firm and Interruptible Exports: Quebec** | | | **646 004** | **10 977 829** | **37 034 352** | **528 246 242** | **37.40** | **36.09** |
| **Saskatchewan** | | | | | | | | |
| Sask. Power | Licence 118 | S | 0 | 66 250 | 0 | 0 | 0.00 | 0.00 |
| | Licence 119 | I | 4 300 | 63 550 | 98 919 | 2 357 436 | 23.00 | 37.03 |
| | | N | -12 431 | -28 339 | 0 | 0 | 0.00 | 0.00 |
| | Permit 89 | F | 0 | 130 277 | 0 | 5 184 681 | 0.00 | 39.24 |
| **Subtotal Firm and Interruptible Exports: Saskatchewan** | | | **4 300** | **193 827** | **98 919** | **7 542 117** | **23.00** | **38.54** |
| **Total Firm and Interruptible Exports:** | | | **3 004 878** | **34 705 284** | **118 261 096** | **1 398 353 747** | **32.05** | **32.84** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | - | P | 0 | 23 021 | 0 | 563 161 | 0.00 | 24.46 |
| TransAlta | | P | 243 | 2 429 | 9 485 | 97 027 | 38.98 | 40.08 |
| TransAlta Ener. | | P | 12 007 | 154 909 | 553 819 | 3 819 988 | 46.12 | 24.66 |
| TransCanada | | P | 0 | 2 202 | 0 | 55 595 | 0.00 | 26.03 |
| **Subtotal Purchased Imports: Alberta** | | | **12 250** | **182 561** | **563 305** | **4 535 771** | **45.98** | **24.90** |
| **British Columbia** | | | | | | | | |
| BC Hydro | | P | 11 | 244 | 947 | 16 719 | 86.09 | 69.10 |
| BC Hydro/Powerx | | P | 0 | 3 420 543 | 0 | 68 064 514 | 0.00 | 20.07 |
| Powerex | | P | 157 539 | 157 539 | 4 921 959 | 4 921 959 | 31.24 | 31.24 |
| West Kootenay | | P | 0 | 83 942 | 0 | 2 570 010 | 0.00 | 24.42 |
| **Subtotal Purchased Imports: British Columbia** | | | **157 550** | **3 662 268** | **4 922 906** | **75 573 202** | **31.25** | **20.71** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | - | N | - 300 593 | - 665 544 | 0 | 0 | 0.00 | 0.00 |
| | | P | 321 690 | 645 286 | 7 842 257 | 16 104 093 | 23.34 | 24.06 |
| **Subtotal Purchased Imports: Manitoba** | | | **321 690** | **645 286** | **7 842 257** | **16 104 093** | **23.34** | **24.06** |
| **New Brunswick** | | | | | | | | |
| Maine & NB | | P | 465 | 4 822 | 20 222 | 207 931 | 43.49 | 44.37 |
| NB Power | | N | - 964 | 57 884 | 0 | 0 | 0.00 | 0.00 |
| | | P | 0 | 3 682 | 0 | 49 785 | 0.00 | 13.52 |
| | | S | 5 129 | 44 329 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: New Brunswick** | | | **465** | **8 504** | **20 222** | **257 716** | **43.49** | **32.59** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | | N | 933 | 7 036 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | | P | 661 | 7 349 | 36 651 | 877 397 | 55.45 | 128.82 |
| | | S | 25 695 | 204 652 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type



| Destination | Authorization | Exchange Type | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$) [1] OCT98 | Revenue (CAN$) [1] JAN98 - OCT98 | CAN$/MW.h [2] OCT98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| D&W Subway | - | P | 145 | 1 324 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | | P | 150 300 | 162 542 | 6 350 567 | 6 745 857 | 42.25 | 41.48 |
| Ontario Hydro | | N | 132 086 | 2 226 052 | 0 | 0 | 0.00 | 0.00 |
| | | P | 675 900 | 3 706 216 | 24 418 814 | 70 857 357 | 36.13 | 22.49 |
| | | S | 30 356 | 333 579 | 26 094 | 314 368 | 0.86 | 0.94 |
| **Subtotal Purchased Imports: Ontario** | | | **827 006** | **3 877 431** | **30 806 032** | **78 480 610** | **37.25** | **23.30** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | | N | 2 460 | 66 707 | 0 | 0 | 0.00 | 0.00 |
| | | P | 30 573 | 738 233 | 3 653 832 | 54 793 834 | 36.18 | 34.29 |
| | | S | 310 843 | 749 835 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Quebec** | | | **30 573** | **738 233** | **3 653 832** | **54 793 834** | **36.18** | **34.29** |
| **Saskatchewan** | | | | | | | | |
| Sask. Power | | N | -13 941 | -50 299 | 0 | 0 | 0.00 | 0.00 |
| | | P | 73 000 | 301 161 | 2 361 331 | 8 763 286 | 32.35 | 28.09 |
| | | S | 0 | 40 000 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Saskatchewan** | | | **73 000** | **301 161** | **2 361 331** | **8 763 286** | **32.35** | **28.09** |
| **Total Purchased Imports:** | | | **1 422 534** | **9 415 444** | **50 169 885** | **238 508 514** | **33.24** | **23.58** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$)[1] OCT98 | Revenue (CAN$)[1] JAN98 - OCT98 | CAN$/MW.h[2] OCT98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Alaska** | British Columbia | 75 | 802 | 8 519 | 45 218 | 113.04 | 54.95 |
| **Subtotal Exports: Alaska** | | **75** | **802** | **8 519** | **45 218** | **113.04** | **54.95** |
| **Arizona** | British Columbia | 0 | 4 000 | 0 | 117 972 | 0.00 | 29.49 |
| **Subtotal Exports: Arizona** | | **0** | **4 000** | **0** | **117 972** | **0.00** | **29.49** |
| **California** | British Columbia | 119 985 | 1 181 547 | 6 632 485 | 70 387 610 | 55.28 | 51.47 |
| **Subtotal Exports: California** | | **119 985** | **1 181 547** | **6 632 485** | **70 387 610** | **55.28** | **51.47** |
| **Colorado** | British Columbia | 1 200 | 1 200 | 55 222 | 55 222 | 46.02 | 46.02 |
| **Subtotal Exports: Colorado** | | **1 200** | **1 200** | **55 222** | **55 222** | **46.02** | **46.02** |
| **Idaho** | British Columbia | 3 563 | 132 388 | 147 613 | 5 670 771 | 41.43 | 40.41 |
| **Subtotal Exports: Idaho** | | **3 563** | **132 388** | **147 613** | **5 670 771** | **41.43** | **40.41** |
| **Iowa** | Manitoba | 350 | 106 355 | 16 890 | 2 030 960 | 46.54 | 18.41 |
| **Subtotal Exports: Iowa** | | **350** | **106 355** | **16 890** | **2 030 960** | **46.54** | **18.41** |
| **Kansas** | Manitoba | 0 | 3 525 | 0 | 104 524 | 0.00 | 29.65 |
| **Subtotal Exports: Kansas** | | **0** | **3 525** | **0** | **104 524** | **0.00** | **29.65** |
| **Maine** | New Brunswick | 230 794 | 3 757 248 | 10 717 267 | 159 468 371 | 43.17 | 42.21 |
| **Subtotal Exports: Maine** | | **230 794** | **3 757 248** | **10 717 267** | **159 468 371** | **43.17** | **42.21** |
| **Michigan** | Ontario | 5 489 | 1 991 767 | 24 811 | 97 216 816 | 4.52 | 39.81 |
| **Subtotal Exports: Michigan** | | **5 489** | **1 991 767** | **24 811** | **97 216 816** | **4.52** | **39.81** |
| **Minnesota** | Manitoba | 790 823 | 8 046 618 | 28 993 904 | 267 564 985 | 27.86 | 24.20 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$)[1] OCT98 | Revenue (CAN$)[1] JAN98 - OCT98 | CAN$/MW.h[2] OCT98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Minnesota** | Ontario | 330 | 48 147 | 214 007 | 4 469 981 | 38.15 | 68.10 |
| | Saskatchewan | 0 | 7 094 | 0 | 266 233 | 0.00 | 37.53 |
| **Subtotal Exports: Minnesota** | | **791 153** | **8 101 859** | **29 207 912** | **272 301 199** | **27.86** | **24.43** |
| **Missouri** | Manitoba | 8 | 504 | 370 | 18 284 | 46.28 | 26.52 |
| **Subtotal Exports: Missouri** | | **8** | **504** | **370** | **18 284** | **46.28** | **26.52** |
| **Montana** | British Columbia | 1 081 | 24 992 | 56 013 | 1 282 396 | 51.82 | 46.46 |
| | Manitoba | 0 | 409 | 0 | 18 148 | 0.00 | 44.37 |
| **Subtotal Exports: Montana** | | **1 081** | **25 401** | **56 013** | **1 300 545** | **51.82** | **46.44** |
| **Nebraska** | Manitoba | 78 | 27 151 | 3 571 | 725 178 | 45.78 | 26.75 |
| **Subtotal Exports: Nebraska** | | **78** | **27 151** | **3 571** | **725 178** | **45.78** | **26.75** |
| **New England** | Ontario | 3 515 | 38 984 | 103 673 | 928 825 | 29.49 | 23.83 |
| | Quebec | 506 319 | 7 234 218 | 18 770 299 | 255 058 300 | 37.07 | 35.47 |
| **Subtotal Exports: New England** | | **509 834** | **7 273 202** | **18 873 972** | **255 987 126** | **37.02** | **35.42** |
| **New York** | Ontario | 30 390 | 280 205 | 1 245 466 | 10 385 987 | 40.97 | 30.27 |
| | Quebec | 1 983 | 2 029 173 | 1 886 366 | 88 843 921 | 50.17 | 37.74 |
| **Subtotal Exports: New York** | | **32 373** | **2 309 378** | **3 131 832** | **99 229 908** | **41.54** | **36.76** |
| **North Dakota** | Manitoba | 11 325 | 132 754 | 709 442 | 6 278 406 | 28.59 | 31.87 |
| | Saskatchewan | 4 300 | 83 761 | 98 919 | 3 841 004 | 23.00 | 45.24 |
| **Subtotal Exports: North Dakota** | | **15 625** | **216 515** | **808 361** | **10 119 409** | **27.06** | **36.76** |
| **Oregon** | Alberta | 0 | 712 | 0 | 17 194 | 0.00 | 18.98 |
| | British Columbia | 115 258 | 562 639 | 4 458 964 | 17 436 645 | 38.69 | 30.04 |
| **Subtotal Exports: Oregon** | | **115 258** | **563 351** | **4 458 964** | **17 453 839** | **38.69** | **29.90** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$)[1] OCT98 | Revenue (CAN$)[1] JAN98 - OCT98 | CAN$/MW.h[2] OCT98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Pennsylvania** | Ontario | 0 | 9 206 | 0 | 620 471 | 0.00 | 67.10 |
| **Subtotal Exports: Pennsylvania** | | **0** | **9 206** | **0** | **620 471** | **0.00** | **67.10** |
| **South Dakota** | Manitoba | 0 | 22 369 | 0 | 478 934 | 0.00 | 21.37 |
| **Subtotal Exports: South Dakota** | | **0** | **22 369** | **0** | **478 934** | **0.00** | **21.37** |
| **Texas** | Manitoba | 52 782 | 718 250 | 2 122 836 | 21 714 540 | 25.49 | 23.28 |
| **Subtotal Exports: Texas** | | **52 782** | **718 250** | **2 122 836** | **21 714 540** | **25.49** | **23.28** |
| **Utah** | British Columbia | 1 400 | 1 400 | 56 918 | 56 918 | 40.66 | 40.66 |
| **Subtotal Exports: Utah** | | **1 400** | **1 400** | **56 918** | **56 918** | **40.66** | **40.66** |
| **Vermont** | Quebec | 137 702 | 1 714 438 | 16 377 688 | 184 344 021 | 38.41 | 37.01 |
| **Subtotal Exports: Vermont** | | **137 702** | **1 714 438** | **16 377 688** | **184 344 021** | **38.41** | **37.01** |
| **Washington** | Alberta | 1 345 | 55 096 | 62 680 | 1 124 843 | 46.60 | 17.44 |
| | British Columbia | 918 331 | 5 644 727 | 23 543 320 | 177 024 828 | 25.64 | 29.80 |
| | Saskatchewan | 0 | 102 972 | 0 | 3 434 880 | 0.00 | 33.57 |
| **Subtotal Exports: Washington** | | **919 676** | **5 802 795** | **23 606 000** | **181 584 552** | **25.67** | **29.68** |
| **Wisconsin** | Manitoba | 66 452 | 740 632 | 1 953 854 | 17 321 357 | 29.40 | 22.84 |
| **Subtotal Exports: Wisconsin** | | **66 452** | **740 632** | **1 953 854** | **17 321 357** | **29.40** | **22.84** |
| **Total Exports** | | **3 004 878** | **34 705 284** | **118 261 096** | **1 398 353 747** | **32.05** | **32.84** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B
## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$)[1] OCT98 | Revenue (CAN$)[1] JAN98 - OCT98 | CAN$/MW.h[2] OCT98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Idaho** | Alberta | 0 | 50 | 0 | 4 697 | 0.00 | 93.95 |
| **Subtotal Imports: Idaho** | | **0** | **50** | **0** | **4 697** | **0.00** | **93.95** |
| **Iowa** | Manitoba | 5 750 | 13 464 | 168 325 | 513 293 | 29.27 | 38.12 |
| **Subtotal Imports: Iowa** | | **5 750** | **13 464** | **168 325** | **513 293** | **29.27** | **38.12** |
| **Maine** | New Brunswick | 465 | 8 504 | 20 222 | 257 716 | 43.49 | 32.59 |
| **Subtotal Imports: Maine** | | **465** | **8 504** | **20 222** | **257 716** | **43.49** | **32.59** |
| **Michigan** | Ontario | 467 339 | 2 968 874 | 16 223 002 | 46 532 447 | 34.71 | 19.94 |
| **Subtotal Imports: Michigan** | | **467 339** | **2 968 874** | **16 223 002** | **46 532 447** | **34.71** | **19.94** |
| **Minnesota** | Manitoba | 291 415 | 557 561 | 6 954 193 | 13 433 067 | 23.07 | 23.66 |
| | Ontario | 16 269 | 65 474 | 398 341 | 1 797 358 | 24.48 | 25.56 |
| | Saskatchewan | 700 | 900 | 19 595 | 31 337 | 27.99 | 34.82 |
| **Subtotal Imports: Minnesota** | | **308 384** | **623 935** | **7 372 129** | **15 261 762** | **23.16** | **23.95** |
| **Missouri** | Manitoba | 0 | 14 | 0 | 1 768 | 0.00 | 126.29 |
| **Subtotal Imports: Missouri** | | **0** | **14** | **0** | **1 768** | **0.00** | **126.29** |
| **Montana** | Alberta | 243 | 3 341 | 9 485 | 137 828 | 38.98 | 41.18 |
| | British Columbia | 11 | 244 | 947 | 16 719 | 86.09 | 69.10 |
| **Subtotal Imports: Montana** | | **254** | **3 585** | **10 432** | **154 547** | **41.01** | **42.99** |
| **Nebraska** | Manitoba | 10 430 | 14 535 | 262 761 | 489 822 | 24.60 | 28.06 |
| **Subtotal Imports: Nebraska** | | **10 430** | **14 535** | **262 761** | **489 822** | **24.60** | **28.06** |
| **New England** | Quebec | 0 | 11 331 | 0 | 1 351 091 | 0.00 | 119.24 |
| **Subtotal Imports: New England** | | **0** | **11 331** | **0** | **1 351 091** | **0.00** | **119.24** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B
## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$)[1] OCT98 | Revenue (CAN$)[1] JAN98 - OCT98 | CAN$/MW.h[2] OCT98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **New York** | Ontario | 193 098 | 671 166 | 7 834 122 | 22 975 770 | 40.57 | 33.62 |
| | Quebec | 20 606 | 704 711 | 710 211 | 23 028 728 | 34.47 | 33.13 |
| **Subtotal Imports: New York** | | **213 704** | **1 375 877** | **8 544 332** | **46 004 498** | **39.98** | **33.37** |
| **North Dakota** | Manitoba | 1 725 | 3 765 | 31 907 | 71 517 | 18.50 | 19.00 |
| | Saskatchewan | 70 550 | 276 577 | 2 211 967 | 7 782 461 | 31.35 | 27.16 |
| **Subtotal Imports: North Dakota** | | **72 275** | **280 342** | **2 243 874** | **7 853 977** | **31.05** | **27.06** |
| **Oregon** | Alberta | 8 473 | 110 705 | 377 719 | 2 544 494 | 44.58 | 22.98 |
| | British Columbia | 0 | 110 | 0 | 3 124 | 0.00 | 28.40 |
| **Subtotal Imports: Oregon** | | **8 473** | **110 815** | **377 719** | **2 547 618** | **44.58** | **22.99** |
| **Pennsylvania** | Ontario | 150 300 | 171 917 | 6 350 567 | 7 175 036 | 42.25 | 41.71 |
| **Subtotal Imports: Pennsylvania** | | **150 300** | **171 917** | **6 350 567** | **7 175 036** | **42.25** | **41.71** |
| **South Dakota** | Alberta | 0 | 3 225 | 0 | 124 188 | 0.00 | 38.51 |
| | Manitoba | 4 475 | 43 769 | 133 696 | 1 030 271 | 29.88 | 23.54 |
| **Subtotal Imports: South Dakota** | | **4 475** | **46 994** | **133 696** | **1 154 459** | **29.88** | **24.57** |
| **Texas** | Manitoba | 0 | 0 | 96 449 | 257 028 | 0.00 | 0.00 |
| **Subtotal Imports: Texas** | | **0** | **0** | **96 449** | **257 028** | **0.00** | **0.00** |
| **Vermont** | Quebec | 9 967 | 22 191 | 2 943 622 | 30 414 015 | 39.74 | 39.54 |
| **Subtotal Imports: Vermont** | | **9 967** | **22 191** | **2 943 622** | **30 414 015** | **39.74** | **39.54** |
| **Washington** | Alberta | 3 534 | 65 240 | 176 101 | 1 724 564 | 49.83 | 26.46 |
| | British Columbia | 157 539 | 3 661 914 | 4 921 959 | 75 553 359 | 31.24 | 20.70 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B

## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) OCT98 | Energy (MW.h) JAN98 - OCT98 | Revenue (CAN$)[1] OCT98 | Revenue (CAN$)[1] JAN98 - OCT98 | CAN$/MW.h[2] OCT98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Washington** | Saskatchewan | 1 750 | 23 684 | 129 769 | 949 489 | 74.15 | 39.58 |
| **Subtotal Imports: Washington** | | **162 823** | **3 750 838** | **5 227 829** | **78 227 412** | **32.11** | **20.92** |
| **Wisconsin** | Manitoba | 7 895 | 12 178 | 194 926 | 307 329 | 24.69 | 25.24 |
| **Subtotal Imports: Wisconsin** | | **7 895** | **12 178** | **194 926** | **307 329** | **24.69** | **25.24** |
| **Total Imports** | | **1 422 534** | **9 415 444** | **50 169 885** | **238 508 514** | **33.24** | **23.58** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 4
## Source of Production Report [1]
## Canadian Exports

| | OCT98 | | |
|---|---|---|---|
| Fuel Type | Energy (MW.h) | Revenue (CAN$) [2] | CAN$/MW.h [2] |
| Canadian Coal | 2 907 | 117 271 | 40.34 |
| Canadian Oil | 4 | 235 | 57.28 |
| Hydraulic | 2 229 882 | 69 418 399 | 31.13 |
| Imported Coal | 30 348 | 1 013 637 | 33.40 |
| Imported Oil | 146 067 | 5 863 041 | 40.14 |
| Other | 532 741 | 16 782 945 | 31.50 |
| **Total** | **2 941 949** | **93 195 528** | **31.68** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter



| Exporter | Fuel Type | Authorization | OCT98 Energy (MW.h) | OCT98 Revenue (CANS) [2] | OCT98 CANS/MW.h [2] |
|---|---|---|---|---|---|
| **Cominco** | Hydraulic | Permit 57 | 27 381 | 1 295 779 | 47.32 |
| | | **Subtotal** | **27 381** | **1 295 779** | **47.32** |
| | **Subtotal** | | **27 381** | **1 295 779** | **47.32** |
| **Hydro-Quebec** | Hydraulic | Licence 176 | 380 228 | 13 816 877 | 36.34 |
| | | Licence 178 | 120 | 6 026 | 50.21 |
| | | Licence 180 | 64 682 | 2 587 283 | 40.00 |
| | | Licence 181 | 21 532 | 861 281 | 40.00 |
| | | Licence 182 | 14 349 | 573 961 | 40.00 |
| | | Licence 183 | 20 587 | 823 481 | 40.00 |
| | | Licence 184 | 5 860 | 234 400 | 40.00 |
| | | Permit 64 | 5 045 | 24 066 | 4.77 |
| | | Permit 65 | 133 454 | 5 220 981 | 39.12 |
| | | **Subtotal** | **645 857** | **24 148 356** | **37.39** |
| | **Subtotal** | | **645 857** | **24 148 356** | **37.39** |
| **Manitoba Hydro** | Hydraulic | Licence 170 | 280 650 | 7 225 145 | 25.74 |
| | | Permit 33 | 37 038 | 787 267 | 21.26 |
| | | Permit 34 | 21 600 | 481 445 | 22.29 |
| | | Permit 35 | 23 846 | 638 911 | 26.79 |
| | | Permit 45 | 162 862 | 4 695 801 | 28.83 |
| | | Permit 46 | 53 843 | 1 618 103 | 30.05 |
| | | Permit 52 | 5 950 | 157 859 | 26.53 |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | OCT98 Energy (MW.h) | OCT98 Revenue (CAN$) [2] | OCT98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Manitoba Hydro** | Hydraulic | Permit 68 | 8 891 | 233 144 | 26.22 |
| | | **Subtotal** | **594 680** | **15 837 676** | **26.63** |
| | Other | Permit 46 | 326 815 | 9 821 523 | 30.05 |
| | | **Subtotal** | **326 815** | **9 821 523** | **30.05** |
| | **Subtotal** | | **921 495** | **25 659 199** | **27.85** |
| **NB Power** | Canadian Coal | Permit 47 | 382 | 20 192 | 52.90 |
| | | Permit 90 | 417 | 14 141 | 33.94 |
| | | Permit 91 | 2 109 | 82 938 | 39.33 |
| | | **Subtotal** | **2 907** | **117 271** | **40.34** |
| | Canadian Oil | Permit 16 | 4 | 235 | 57.28 |
| | | **Subtotal** | **4** | **235** | **57.28** |
| | Imported Coal | Permit 16 | 364 | 20 834 | 57.17 |
| | | Permit 18 | 6 | 541 | 84.55 |
| | | Permit 47 | 1 282 | 67 839 | 52.90 |
| | | Permit 90 | 1 655 | 56 156 | 33.94 |
| | | Permit 91 | 19 056 | 750 862 | 39.40 |
| | | **Subtotal** | **22 364** | **896 231** | **40.08** |
| | Imported Oil | Permit 15 | 2 198 | 57 524 | 26.17 |
| | | Permit 16 | 12 116 | 674 779 | 55.69 |
| | | Permit 18 | 5 | 389 | 84.55 |
| | | Permit 47 | 2 223 | 117 618 | 52.90 |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | OCT98 Energy (MW.h) | OCT98 Revenue (CAN$) [2] | OCT98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **NB Power** | Imported Oil | Permit 90 | 2 837 | 96 280 | 33.94 |
| | | Permit 91 | 126 614 | 4 913 989 | 38.81 |
| | | **Subtotal** | **145 993** | **5 860 579** | **40.14** |
| | Other | Permit 16 | 4 062 | 224 978 | 55.39 |
| | | Permit 47 | 2 816 | 148 940 | 52.90 |
| | | Permit 90 | 4 763 | 161 643 | 33.94 |
| | | Permit 91 | 21 328 | 839 901 | 39.38 |
| | | **Subtotal** | **32 968** | **1 375 462** | **41.72** |
| | **Subtotal** | | **204 236** | **8 249 778** | **40.39** |
| **Ont. Hydro/OHIM** | Hydraulic | Permit 21 | 140 | 5 114 | 36.53 |
| | | **Subtotal** | **140** | **5 114** | **36.53** |
| | Imported Coal | Permit 21 | 7 984 | 117 406 | 14.71 |
| | | **Subtotal** | **7 984** | **117 406** | **14.71** |
| | Imported Oil | Permit 21 | 74 | 2 461 | 33.26 |
| | | **Subtotal** | **74** | **2 461** | **33.26** |
| | **Subtotal** | | **8 198** | **124 982** | **15.25** |
| **Powerex** | Hydraulic | Permit 71 | 8 610 | 362 835 | 42.14 |
| | | Permit 92 | 85 675 | 0 | 0.00 |
| | | Permit 95 | 14 740 | 540 967 | 36.70 |
| | | Permit 118 | 828 959 | 26 667 880 | 32.17 |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | OCT98 Energy (MW.h) | OCT98 Revenue (CAN$) [2] | OCT98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Powerex** | Hydraulic | Permit 119 | 23 840 | 559 792 | 23.48 |
| | | **Subtotal** | **961 824** | **28 131 473** | **29.25** |
| | Other | Permit 116 | 200 | 8 869 | 44.35 |
| | | Permit 118 | 171 413 | 5 514 412 | 32.17 |
| | | **Subtotal** | **171 613** | **5 523 281** | **32.18** |
| | **Subtotal** | | **1 133 437** | **33 654 754** | **29.69** |
| **TransAlta Ener.** | Other | Permit 74 | 1 345 | 62 680 | 46.60 |
| | | **Subtotal** | **1 345** | **62 680** | **46.60** |
| | **Subtotal** | | **1 345** | **62 680** | **46.60** |
| **Total All Exporters** | | | **2 941 949** | **93 195 528** | **31.68** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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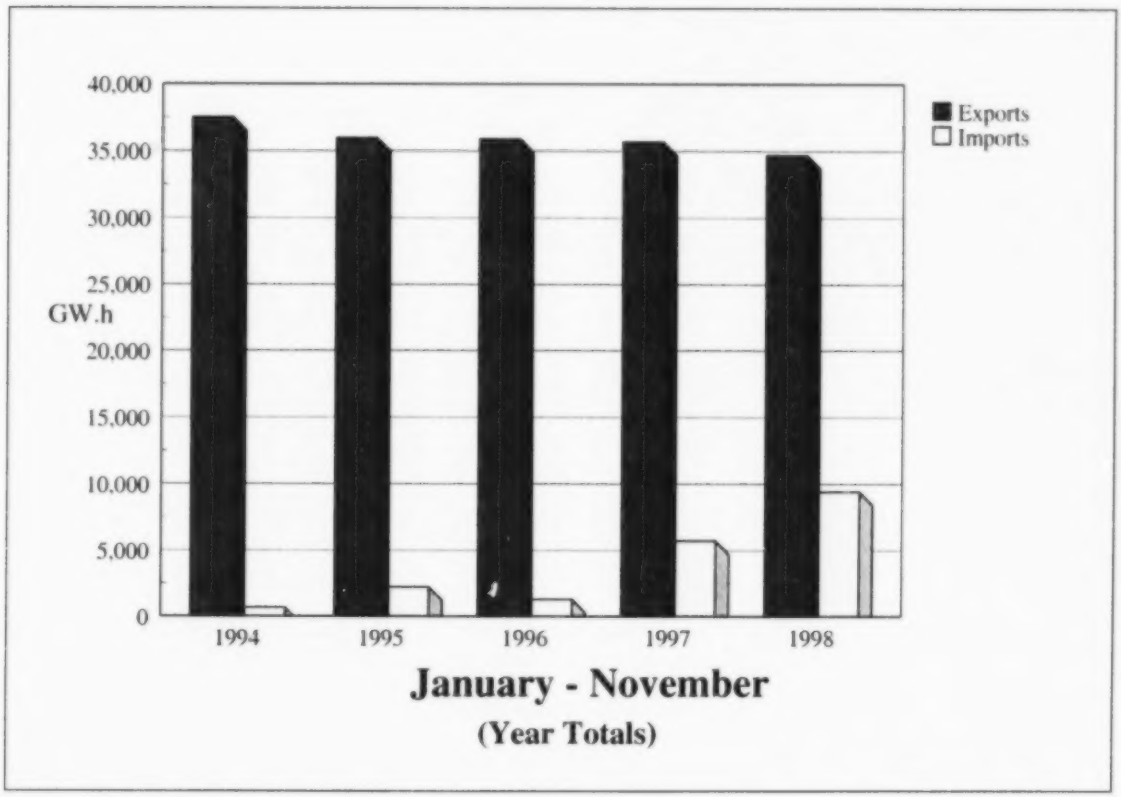
# Electricity Exports and Imports

## Monthly Statistics for:

## November 1998

Exports: **2262** GW.h
Imports: **1221** GW.h



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# TABLE 1
# Exports and Imports of Electricity
# Summary: Canada
# NOVEMBER 1998



| | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|
| **Exports of Electric Energy** | Firm | 1 251 287 | 18 426 340 | 57 599 809 | 810 138 478 | 31.40 | 31.46 |
| | Interruptible | 1 010 360 | 18 540 590 | 40 117 689 | 685 932 767 | 39.70 | 34.95 |
| | Non-Revenue/Inadvertant | -96 380 | 1 678 178 | 0 | 0 | 0.00 | 0.00 |
| | Service | 93 755 | 919 610 | 94 | 644 | 0.00 | 0.00 |
| **Total Exports** | | **2 259 022** | **39 564 719** | **97 717 592** | **1 496 071 889** | **35.15** | **31.03** |
| Total Sales - Firm and Interruptible | | 2 261 647 | 36 966 930 | 97 717 498 | 1 496 071 246 | 35.11 | 33.24 |
| **Imports of Electric Energy** | Non-Revenue/Inadvertant | - 109 671 | 1 532 165 | 0 | 0 | 0.00 | 0.00 |
| | Purchase | 1 220 788 | 10 636 232 | 40 125 411 | 278 633 925 | 30.35 | 23.63 |
| | Service | 244 514 | 1 616 909 | 74 076 | 388 444 | 0.30 | 0.25 |
| **Total Imports** | | **1 355 631** | **13 785 306** | **40 199 487** | **279 022 370** | **27.39** | **18.20** |
| **Excess of Exports Over Imports** | | **903 391** | **25 779 413** | **57 518 105** | **1 217 049 520** | | |

**Number of Export Licences:** 16

**Number of Export Permits/Orders:** 86

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Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

***For further information, contact:***
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***Research Officer,***
***Energy Commodities Branch***
***National Energy Board***
***(403) 299 - 3171***

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type


99/03/24

| Source | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | Permit 98 | I | 0 | 887 | 0 | 15 504 | 0.00 | 17.48 |
| TransAlta Ener. | Permit 73 | I | 0 | 150 | 0 | 2 349 | 0.00 | 15.66 |
| | Permit 74 | F | 3 584 | 58 355 | 121 747 | 1 245 932 | 33.97 | 18.90 |
| **Subtotal Firm and Interruptible Exports: Alberta** | | | **3 584** | **59 392** | **121 747** | **1 263 784** | **33.97** | **18.88** |
| **British Columbia** | | | | | | | | |
| BC Hydro | Permit 105 | F | 114 | 916 | 2 637 | 47 855 | 23.23 | 55.20 |
| | Treaty | N | 24 901 | 290 741 | 0 | 0 | 0.00 | 0.00 |
| BC Hydro/Powerx | Permit 43 | I | 0 | 5 489 294 | 0 | 224 550 228 | 0.00 | 38.55 |
| | Permit 44 | F | 0 | 179 632 | 0 | 4 912 349 | 0.00 | 27.87 |
| Cominco | Permit 57 | I | 32 126 | 213 676 | 1 397 880 | 7 755 827 | 43.51 | 34.78 |
| Powerex | Permit 71 | F | 0 | 25 650 | 0 | 1 083 626 | 0.00 | 42.25 |
| | Permit 92 | F | 82 800 | 674 600 | 0 | 0 | 0.00 | 0.00 |
| | Permit 95 | F | 14 400 | 74 935 | 523 391 | 2 899 391 | 36.35 | 38.48 |
| | Permit 116 | I | 0 | 200 | 0 | 8 869 | 0.00 | 44.35 |
| | Permit 118 | I | 535 428 | 1 535 800 | 22 123 647 | 54 305 939 | 41.32 | 35.36 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Powerex | Permit 119 | F | 19 728 | 43 568 | 686 529 | 1 246 320 | 34.80 | 28.61 |
| West Kootenay | Permit 13 | F | 0 | 20 | 0 | 1 262 | 0.00 | 61.90 |
| **Subtotal Firm and Interruptible Exports: British Columbia** | | | **684 596** | **8 238 291** | **24 734 084** | **296 811 666** | **36.13** | **34.63** |
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | Licence 170 | F | 258 445 | 3 033 861 | 13 186 475 | 147 617 563 | 24.59 | 24.48 |
| | Permit 33 | F | 0 | 176 231 | 0 | 3 696 838 | 0.00 | 21.01 |
| | Permit 34 | F | 0 | 145 900 | 0 | 3 210 998 | 0.00 | 22.01 |
| | Permit 35 | F | 0 | 120 556 | 0 | 3 227 979 | 0.00 | 26.27 |
| | Permit 45 | F | 67 646 | 1 806 355 | 1 815 079 | 52 527 304 | 26.75 | 25.49 |
| | Permit 46 | I | 162 704 | 4 875 789 | 5 427 024 | 119 608 225 | 33.48 | 24.19 |
| | | N | - 215 103 | - 886 334 | 0 | 0 | 0.00 | 0.00 |
| | Permit 52 | F | 0 | 28 264 | 0 | 1 595 606 | 0.00 | 26.25 |
| | Permit 61 | F | 368 | 3 888 | 16 388 | 180 037 | 44.49 | 46.04 |
| | Permit 68 | F | 3 970 | 100 856 | 389 747 | 5 425 480 | 25.25 | 23.34 |
| **Subtotal Firm and Interruptible Exports: Manitoba** | | | **493 133** | **10 291 700** | **20 834 713** | **337 090 031** | **27.84** | **24.45** |
| **New Brunswick** | | | | | | | | |
| Fraser Inc. | Permit 102 | F | 21 945 | 282 270 | 1 572 715 | 18 830 231 | 71.67 | 66.33 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Maine & NB | Licence 177 | F | 5 172 | 87 885 | 169 827 | 2 376 312 | 16.40 | 16.40 |
| NB Power | Permit 15 | I | 367 | 4 098 | 10 123 | 212 099 | 27.58 | 46.58 |
| | | N | - 625 | - 467 | 0 | 0 | 0.00 | 0.00 |
| | Permit 16 | I | 14 112 | 70 121 | 773 790 | 3 984 017 | 54.83 | 54.22 |
| | | N | -2 739 | -58 739 | 0 | 0 | 0.00 | 0.00 |
| | Permit 17 | S | 4 070 | 48 399 | 0 | 0 | 0.00 | 0.00 |
| | Permit 18 | I | 1 669 | 28 297 | 89 416 | 1 383 780 | 53.57 | 49.40 |
| | | N | -36 | 21 | 0 | 0 | 0.00 | 0.00 |
| | Permit 28 | F | 4 | 29 | 474 | 3 552 | 120.38 | 121.81 |
| | Permit 47 | F | 6 993 | 75 128 | 561 146 | 5 746 782 | 52.90 | 51.66 |
| | Permit 90 | F | 13 | 9 685 | 436 | 328 655 | 33.52 | 33.93 |
| | Permit 91 | I | 191 336 | 3 441 347 | 7 628 904 | 137 409 775 | 39.87 | 39.48 |
| **Subtotal Firm and Interruptible Exports: New Brunswick** | | | **241 611** | **3 998 860** | **10 806 831** | **170 275 203** | **43.58** | **41.74** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | Permit 84 | F | 24 464 | 256 572 | 786 437 | 7 461 652 | 32.15 | 28.68 |
| | Permit 85 | S | 6 745 | 92 568 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | Permit 82 | I | 373 | 11 542 | 8 628 | 251 695 | 23.13 | 21.71 |
| | Permit 83 | S | 25 334 | 229 986 | 0 | 0 | 0.00 | 0.00 |
| D&W Subway | Permit 26 | F | 137 | 1 594 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Ont. Hydro/OHIM | Permit 21 | I | 63 950 | 2 187 336 | 2 381 035 | 109 083 891 | 37.09 | 40.32 |
| | | S | 57 606 | 130 889 | 94 | 644 | 0.00 | 0.00 |
| Ontario Hydro | Permit 22 | N | 94 430 | 2 324 413 | 0 | 0 | 0.00 | 0.00 |
| | Permit 24 | F | 16 | 167 | 32 | 333 | 2.00 | 2.00 |
| | Permit 25 | F | 0 | 38 | 0 | 641 | 0.00 | 31.16 |
| **Subtotal Firm and Interruptible Exports: Ontario** | | | **88 941** | **2 457 250** | **3 176 132** | **116 798 212** | **35.61** | **38.91** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | Licence 176 | F | 342 417 | 5 270 652 | 11 601 839 | 179 497 926 | 33.88 | 34.02 |
| | Licence 178 | F | 0 | 1 811 840 | 0 | 77 541 735 | 0.00 | 35.96 |
| | Licence 180 | F | 91 464 | 859 957 | 9 284 686 | 92 596 471 | 39.53 | 37.85 |
| | Licence 181 | F | 27 114 | 306 382 | 2 734 146 | 42 913 687 | 39.53 | 36.56 |
| | Licence 182 | F | 13 497 | 150 266 | 1 349 589 | 14 377 378 | 39.53 | 38.20 |
| | Licence 183 | F | 25 040 | 214 293 | 2 509 466 | 24 288 579 | 39.53 | 38.28 |
| | Licence 184 | F | 12 834 | 111 818 | 1 321 427 | 12 831 069 | 39.53 | 38.20 |
| | Permit 20 | F | 0 | 1 045 | 0 | 73 914 | 0.00 | 71.10 |
| | Permit 64 | I | 7 695 | 614 698 | 248 094 | 24 817 124 | 29.88 | 39.22 |
| | | N | 3 464 | 37 557 | 0 | 0 | 0.00 | 0.00 |
| | | S | 0 | 347 568 | 0 | 0 | 0.00 | 0.00 |
| | Permit 65 | F | 229 043 | 2 382 777 | 8 962 308 | 97 163 051 | 37.24 | 38.58 |
| | | S | 0 | 3 950 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Maclaren Ind. | Permit 111 | I | 0 | 3 205 | 0 | 156 862 | 0.00 | 48.94 |
| **Subtotal Firm and Interruptible Exports: Quebec** | | | **749 104** | **11 726 933** | **38 011 555** | **566 257 797** | **36.15** | **36.09** |
| **Saskatchewan** | | | | | | | | |
| Sask. Power | Licence 118 | S | 0 | 66 250 | 0 | 0 | 0.00 | 0.00 |
| | Licence 119 | I | 600 | 64 150 | 29 148 | 2 386 584 | 48.58 | 37.17 |
| | | N | - 675 | -29 014 | 0 | 0 | 0.00 | 0.00 |
| | Permit 89 | F | 78 | 130 355 | 3 289 | 5 187 969 | 42.16 | 39.57 |
| **Subtotal Firm and Interruptible Exports: Saskatchewan** | | | **678** | **194 505** | **32 437** | **7 574 553** | **47.84** | **38.79** |
| **Total Firm and Interruptible Exports:** | | | **2 261 647** | **36 966 930** | **97 717 498** | **1 496 071 246** | **35.11** | **33.24** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | - | P | 0 | 23 021 | 0 | 563 161 | 0.00 | 24.46 |
| TransAlta | | P | 0 | 2 429 | 0 | 97 027 | 0.00 | 39.92 |
| TransAlta Ener. | | P | 2 340 | 157 249 | 99 491 | 3 919 479 | 42.52 | 24.93 |
| TransCanada | | P | 0 | 2 202 | 0 | 55 595 | 0.00 | 26.58 |
| **Subtotal Purchased Imports: Alberta** | | | **2 340** | **184 901** | **99 491** | **4 635 262** | **42.52** | **25.11** |
| **British Columbia** | | | | | | | | |
| BC Hydro | | P | 9 | 253 | 878 | 17 597 | 97.56 | 69.87 |
| BC Hydro/Powerx | | P | 0 | 3 420 543 | 0 | 68 064 514 | 0.00 | 20.00 |
| Powerex | | P | 300 094 | 457 633 | 8 554 874 | 13 476 834 | 28.51 | 29.45 |
| West Kootenay | | P | 170 | 84 112 | 248 405 | 2 818 415 | 54.36 | 25.09 |
| **Subtotal Purchased Imports: British Columbia** | | | **300 273** | **3 962 541** | **8 804 157** | **84 377 360** | **28.52** | **21.24** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | - | N | - 212 697 | - 878 241 | 0 | 0 | 0.00 | 0.00 |
| | | P | 234 813 | 880 099 | 5 369 406 | 21 473 499 | 22.84 | 23.73 |
| **Subtotal Purchased Imports: Manitoba** | | | **234 813** | **880 099** | **5 369 406** | **21 473 499** | **22.84** | **23.73** |
| **New Brunswick** | | | | | | | | |
| Maine & NB | | P | 379 | 5 201 | 18 662 | 226 593 | 49.24 | 42.93 |
| NB Power | | N | 3 270 | 61 154 | 0 | 0 | 0.00 | 0.00 |
| | | P | 0 | 3 682 | 0 | 49 785 | 0.00 | 13.52 |
| | | S | 4 070 | 48 399 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: New Brunswick** | | | **379** | **8 883** | **18 662** | **276 378** | **49.24** | **32.02** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | | N | 208 | 7 244 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | | P | 660 | 8 009 | 36 137 | 913 534 | 54.75 | 124.26 |
| | | S | 25 334 | 229 986 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type



| Destination | Authorization | Exchange Type | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| D&W Subway | - | P | 133 | 1 457 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | | P | 1 555 | 164 097 | 49 456 | 6 795 313 | 31.80 | 41.41 |
| Ontario Hydro | | N | 92 649 | 2 318 701 | 0 | 0 | 0.00 | 0.00 |
| | | P | 506 769 | 4 212 985 | 16 459 451 | 87 316 807 | 32.48 | 21.95 |
| | | S | 65 417 | 398 996 | 74 076 | 388 444 | 1.13 | 0.97 |
| **Subtotal Purchased Imports: Ontario** | | | **509 117** | **4 386 548** | **16 545 044** | **95 025 654** | **32.50** | **22.80** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | | N | 7 468 | 74 175 | 0 | 0 | 0.00 | 0.00 |
| | | P | 108 886 | 847 119 | 6 857 983 | 61 651 817 | 37.03 | 34.53 |
| | | S | 149 693 | 899 528 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Quebec** | | | **108 886** | **847 119** | **6 857 983** | **61 651 817** | **37.03** | **34.53** |
| **Saskatchewan** | | | | | | | | |
| Sask. Power | | N | - 569 | -50 868 | 0 | 0 | 0.00 | 0.00 |
| | | P | 64 980 | 366 141 | 2 430 669 | 11 193 955 | 37.41 | 30.43 |
| | | S | 0 | 40 000 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Saskatchewan** | | | **64 980** | **366 141** | **2 430 669** | **11 193 955** | **37.41** | **30.43** |
| **Total Purchased Imports:** | | | **1 220 788** | **10 636 232** | **40 125 411** | **278 633 925** | **30.35** | **23.63** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A
## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$)[1] NOV98 | Revenue (CAN$)[1] JAN98 - NOV98 | CAN$/MW.h[2] NOV98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Alaska** | British Columbia | 114 | 916 | 2 637 | 47 855 | 23.23 | 55.20 |
| **Subtotal Exports: Alaska** | | **114** | **916** | **2 637** | **47 855** | **23.23** | **55.20** |
| **Arizona** | British Columbia | 0 | 4 000 | 0 | 117 972 | 0.00 | 29.49 |
| **Subtotal Exports: Arizona** | | **0** | **4 000** | **0** | **117 972** | **0.00** | **29.49** |
| **California** | British Columbia | 82 020 | 1 263 567 | 3 985 870 | 74 373 480 | 48.60 | 55.15 |
| **Subtotal Exports: California** | | **82 020** | **1 263 567** | **3 985 870** | **74 373 480** | **48.60** | **55.15** |
| **Colorado** | British Columbia | 0 | 1 200 | 0 | 55 222 | 0.00 | 46.02 |
| **Subtotal Exports: Colorado** | | **0** | **1 200** | **0** | **55 222** | **0.00** | **46.02** |
| **Idaho** | British Columbia | 4 694 | 137 082 | 210 600 | 5 881 371 | 44.87 | 41.18 |
| **Subtotal Exports: Idaho** | | **4 694** | **137 082** | **210 600** | **5 881 371** | **44.87** | **41.18** |
| **Iowa** | Manitoba | 153 | 106 508 | 6 384 | 2 037 345 | 41.73 | 18.44 |
| **Subtotal Exports: Iowa** | | **153** | **106 508** | **6 384** | **2 037 345** | **41.73** | **18.44** |
| **Kansas** | Manitoba | 0 | 3 525 | 0 | 104 524 | 0.00 | 29.65 |
| **Subtotal Exports: Kansas** | | **0** | **3 525** | **0** | **104 524** | **0.00** | **29.65** |
| **Maine** | New Brunswick | 241 611 | 3 998 860 | 10 806 831 | 170 275 203 | 43.58 | 41.74 |
| **Subtotal Exports: Maine** | | **241 611** | **3 998 860** | **10 806 831** | **170 275 203** | **43.58** | **41.74** |
| **Michigan** | Ontario | 2 787 | 1 994 554 | 110 327 | 97 327 144 | 39.58 | 39.81 |
| **Subtotal Exports: Michigan** | | **2 787** | **1 994 554** | **110 327** | **97 327 144** | **39.58** | **39.81** |
| **Minnesota** | Manitoba | 412 591 | 8 459 209 | 18 318 401 | 285 883 386 | 27.19 | 24.55 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$)[1] NOV98 | Revenue (CAN$)[1] JAN98 - NOV98 | CAN$/MW.h[2] NOV98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Minnesota** | Ontario | 2 355 | 50 502 | 101 867 | 4 571 848 | 43.26 | 67.06 |
| | Saskatchewan | 0 | 7 094 | 0 | 266 233 | 0.00 | 37.53 |
| **Subtotal Exports: Minnesota** | | **414 946** | **8 516 805** | **18 420 267** | **290 721 466** | **27.28** | **24.79** |
| **Missouri** | Manitoba | 95 | 599 | 4 343 | 22 627 | 45.71 | 27.90 |
| **Subtotal Exports: Missouri** | | **95** | **599** | **4 343** | **22 627** | **45.71** | **27.90** |
| **Montana** | British Columbia | 205 | 25 197 | 9 904 | 1 292 300 | 48.31 | 47.70 |
| | Manitoba | 125 | 534 | 5 904 | 24 053 | 47.23 | 45.04 |
| **Subtotal Exports: Montana** | | **330** | **25 731** | **15 808** | **1 316 353** | **47.90** | **47.65** |
| **Nebraska** | Manitoba | 2 126 | 29 277 | 82 040 | 807 218 | 38.59 | 27.60 |
| **Subtotal Exports: Nebraska** | | **2 126** | **29 277** | **82 040** | **807 218** | **38.59** | **27.60** |
| **New England** | Ontario | 2 380 | 41 364 | 67 372 | 996 197 | 28.31 | 24.08 |
| | Quebec | 555 063 | 7 789 281 | 19 575 175 | 274 633 476 | 35.27 | 35.40 |
| **Subtotal Exports: New England** | | **557 443** | **7 830 645** | **19 642 547** | **275 629 673** | **35.24** | **35.35** |
| **New York** | Ontario | 81 418 | 361 623 | 2 896 566 | 13 282 553 | 35.46 | 31.39 |
| | Quebec | 3 691 | 2 032 864 | 183 347 | 89 027 268 | 49.13 | 37.70 |
| **Subtotal Exports: New York** | | **85 109** | **2 394 487** | **3 079 913** | **102 309 821** | **36.06** | **36.71** |
| **North Dakota** | Manitoba | 5 363 | 138 117 | 208 312 | 6 486 718 | 38.84 | 33.00 |
| | Saskatchewan | 600 | 84 361 | 29 148 | 3 870 152 | 48.58 | 45.59 |
| **Subtotal Exports: North Dakota** | | **5 963** | **222 478** | **237 460** | **10 356 870** | **39.82** | **37.76** |
| **Oregon** | Alberta | 170 | 882 | 5 364 | 22 557 | 31.55 | 22.78 |
| | British Columbia | 68 610 | 631 249 | 2 434 371 | 19 871 016 | 35.48 | 30.96 |
| **Subtotal Exports: Oregon** | | **68 780** | **632 131** | **2 439 734** | **19 893 573** | **35.47** | **30.94** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source

| Destination | Source | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$) [1] NOV98 | Revenue (CAN$) [1] JAN98 - NOV98 | CAN$/MW.h [2] NOV98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|
| **Pennsylvania** | Ontario | 0 | 9 206 | 0 | 620 471 | 0.00 | 67.25 |
| **Subtotal Exports: Pennsylvania** | | **0** | **9 206** | **0** | **620 471** | **0.00** | **67.25** |
| **South Dakota** | Manitoba | 0 | 22 369 | 0 | 478 934 | 0.00 | 21.37 |
| **Subtotal Exports: South Dakota** | | **0** | **22 369** | **0** | **478 934** | **0.00** | **21.37** |
| **Texas** | Manitoba | 8 800 | 727 050 | 336 738 | 22 051 278 | 38.27 | 23.72 |
| **Subtotal Exports: Texas** | | **8 800** | **727 050** | **336 738** | **22 051 278** | **38.27** | **23.72** |
| **Utah** | British Columbia | 0 | 1 400 | 0 | 56 918 | 0.00 | 40.66 |
| **Subtotal Exports: Utah** | | **0** | **1 400** | **0** | **56 918** | **0.00** | **40.66** |
| **Vermont** | Quebec | 190 350 | 1 904 788 | 18 253 032 | 202 597 053 | 38.48 | 37.32 |
| **Subtotal Exports: Vermont** | | **190 350** | **1 904 788** | **18 253 032** | **202 597 053** | **38.48** | **37.32** |
| **Washington** | Alberta | 3 414 | 58 510 | 116 383 | 1 241 227 | 34.09 | 18.81 |
| | British Columbia | 528 953 | 6 173 680 | 18 090 703 | 195 115 532 | 34.20 | 30.70 |
| | Saskatchewan | 78 | 103 050 | 3 289 | 3 438 169 | 42.16 | 33.37 |
| **Subtotal Exports: Washington** | | **532 445** | **6 335 240** | **18 210 375** | **199 794 927** | **34.20** | **30.58** |
| **Wisconsin** | Manitoba | 63 880 | 804 512 | 1 872 591 | 19 193 948 | 29.22 | 23.51 |
| **Subtotal Exports: Wisconsin** | | **63 880** | **804 512** | **1 872 591** | **19 193 948** | **29.22** | **23.51** |
| **Total Exports** | | **2 261 647** | **36 966 930** | **97 717 498** | **1 496 071 246** | **35.11** | **33.24** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 3B

## Import Purchases Summary Report by Source and Destination

| Source | Destination | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$)[1] NOV98 | Revenue (CAN$)[1] JAN98 - NOV98 | CAN$/MW.h[2] NOV98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Idaho** | Alberta | 20 | 70 | 837 | 5 534 | 41.84 | 79.06 |
| **Subtotal Imports: Idaho** | | **20** | **70** | **837** | **5 534** | **41.84** | **79.06** |
| **Iowa** | Manitoba | 1 500 | 14 964 | 36 569 | 549 862 | 24.38 | 36.75 |
| **Subtotal Imports: Iowa** | | **1 500** | **14 964** | **36 569** | **549 862** | **24.38** | **36.75** |
| **Maine** | New Brunswick | 379 | 8 883 | 18 662 | 276 378 | 49.24 | 32.02 |
| **Subtotal Imports: Maine** | | **379** | **8 883** | **18 662** | **276 378** | **49.24** | **32.02** |
| **Michigan** | Ontario | 435 499 | 3 404 373 | 13 166 354 | 59 698 800 | 30.23 | 19.44 |
| **Subtotal Imports: Michigan** | | **435 499** | **3 404 373** | **13 166 354** | **59 698 800** | **30.23** | **19.44** |
| **Minnesota** | Manitoba | 192 260 | 749 821 | 4 472 801 | 17 905 867 | 23.26 | 23.56 |
| | Ontario | 803 | 66 277 | 18 564 | 1 815 922 | 23.12 | 26.67 |
| | Saskatchewan | 0 | 900 | 0 | 31 337 | 0.00 | 34.82 |
| **Subtotal Imports: Minnesota** | | **193 063** | **816 998** | **4 491 365** | **19 753 126** | **23.26** | **23.84** |
| **Missouri** | Manitoba | 0 | 14 | 0 | 1 768 | 0.00 | 126.29 |
| **Subtotal Imports: Missouri** | | **0** | **14** | **0** | **1 768** | **0.00** | **126.29** |
| **Montana** | Alberta | 0 | 3 341 | 0 | 137 828 | 0.00 | 41.14 |
| | British Columbia | 9 | 253 | 878 | 17 597 | 97.56 | 69.87 |
| **Subtotal Imports: Montana** | | **9** | **3 594** | **878** | **155 425** | **97.56** | **43.09** |
| **Nebraska** | Manitoba | 39 330 | 53 865 | 824 906 | 1 314 728 | 20.82 | 22.77 |
| **Subtotal Imports: Nebraska** | | **39 330** | **53 865** | **824 906** | **1 314 728** | **20.82** | **22.77** |
| **New England** | Quebec | 0 | 11 331 | 0 | 1 351 091 | 0.00 | 119.24 |
| **Subtotal Imports: New England** | | **0** | **11 331** | **0** | **1 351 091** | **0.00** | **119.24** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B

## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$)[1] NOV98 | Revenue (CAN$)[1] JAN98 - NOV98 | CAN$/MW.h[2] NOV98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **New York** | Ontario | 71 260 | 742 426 | 3 310 671 | 26 286 441 | 46.46 | 34.99 |
| | Quebec | 89 357 | 794 068 | 3 228 044 | 26 256 772 | 36.13 | 33.23 |
| **Subtotal Imports: New York** | | **160 617** | **1 536 494** | **6 538 715** | **52 543 212** | **40.71** | **34.02** |
| **North Dakota** | Manitoba | 1 523 | 5 288 | 30 102 | 101 619 | 19.77 | 19.22 |
| | Saskatchewan | 64 980 | 341 557 | 2 430 669 | 10 213 129 | 37.41 | 29.77 |
| **Subtotal Imports: North Dakota** | | **66 503** | **346 845** | **2 460 771** | **10 314 748** | **37.00** | **29.61** |
| **Oregon** | Alberta | 1 025 | 111 730 | 43 044 | 2 587 539 | 41.99 | 23.16 |
| | British Columbia | 0 | 110 | 0 | 3 124 | 0.00 | 28.40 |
| **Subtotal Imports: Oregon** | | **1 025** | **111 840** | **43 044** | **2 590 663** | **41.99** | **23.16** |
| **Pennsylvania** | Ontario | 1 555 | 173 472 | 49 456 | 7 224 491 | 31.80 | 41.65 |
| **Subtotal Imports: Pennsylvania** | | **1 555** | **173 472** | **49 456** | **7 224 491** | **31.80** | **41.65** |
| **South Dakota** | Alberta | 0 | 3 225 | 0 | 124 188 | 0.00 | 38.51 |
| | Manitoba | 0 | 43 769 | 0 | 1 030 271 | 0.00 | 23.54 |
| **Subtotal Imports: South Dakota** | | **0** | **46 994** | **0** | **1 154 459** | **0.00** | **24.57** |
| **Texas** | Manitoba | 0 | 0 | 0 | 257 028 | 0.00 | 0.00 |
| **Subtotal Imports: Texas** | | **0** | **0** | **0** | **257 028** | **0.00** | **0.00** |
| **Vermont** | Quebec | 19 529 | 41 720 | 3 629 939 | 34 043 954 | 41.19 | 40.32 |
| **Subtotal Imports: Vermont** | | **19 529** | **41 720** | **3 629 939** | **34 043 954** | **41.19** | **40.32** |
| **Washington** | Alberta | 1 295 | 66 535 | 55 610 | 1 780 173 | 42.94 | 26.80 |
| | British Columbia | 300 264 | 3 962 178 | 8 803 279 | 84 356 639 | 28.52 | 21.24 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B

## Import Purchases Summary Report by Source and Destination

| Source | Destination | Energy (MW.h) NOV98 | Energy (MW.h) JAN98 - NOV98 | Revenue (CAN$)[1] NOV98 | Revenue (CAN$)[1] JAN98 - NOV98 | CAN$/MW.h[2] NOV98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Washington** | Saskatchewan | 0 | 23 684 | 0 | 949 489 | 0.00 | 39.77 |
| **Subtotal Imports: Washington** | | **301 559** | **4 052 397** | **8 858 889** | **87 086 301** | **28.58** | **21.43** |
| **Wisconsin** | Manitoba | 200 | 12 378 | 5 028 | 312 357 | 25.14 | 25.23 |
| **Subtotal Imports: Wisconsin** | | **200** | **12 378** | **5 028** | **312 357** | **25.14** | **25.23** |
| **Total Imports** | | **1 220 788** | **10 636 232** | **40 125 411** | **278 633 925** | **30.35** | **23.63** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 4
## Source of Production Report [1]
## Canadian Exports



| | NOV98 | | |
|---|---|---|---|
| **Fuel Type** | **Energy (MW.h)** | **Revenue (CAN$)** [2] | **CAN$/MW.h** [2] |
| Canadian Coal | 1 463 | 62 628 | 42.80 |
| Canadian Oil | 71 | 3 873 | 54.94 |
| Hydraulic | 1 360 872 | 44 482 174 | 32.69 |
| Imported Coal | 65 450 | 2 412 421 | 36.86 |
| Imported Oil | 115 038 | 4 890 700 | 42.51 |
| Nuclear | 0 | 11 | 0.00 |
| Other | 661 897 | 24 916 998 | 37.64 |
| **Total** | **2 204 791** | **76 768 806** | **34.82** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | NOV98 Energy (MW.h) | NOV98 Revenue (CAN$) [2] | NOV98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Cominco** | Hydraulic | Permit 57 | 32 126 | 1 397 880 | 43.51 |
| | | **Subtotal** | **32 126** | **1 397 880** | **43.51** |
| | **Subtotal** | | **32 126** | **1 397 880** | **43.51** |
| **Hydro-Quebec** | Hydraulic | Licence 176 | 342 417 | 11 601 839 | 33.88 |
| | | Licence 180 | 91 464 | 3 615 736 | 39.53 |
| | | Licence 181 | 27 114 | 1 071 865 | 39.53 |
| | | Licence 182 | 13 497 | 533 561 | 39.53 |
| | | Licence 183 | 25 040 | 989 876 | 39.53 |
| | | Licence 184 | 12 834 | 507 351 | 39.53 |
| | | Permit 64 | 7 695 | 229 929 | 29.88 |
| | | Permit 65 | 229 043 | 8 530 348 | 37.24 |
| | | **Subtotal** | **749 104** | **27 080 504** | **36.15** |
| | **Subtotal** | | **749 104** | **27 080 504** | **36.15** |
| **Manitoba Hydro** | Hydraulic | Licence 170 | 257 952 | 6 343 689 | 24.59 |
| | | **Subtotal** | **257 952** | **6 343 689** | **24.59** |
| | Other | Licence 170 | 493 | 12 124 | 24.59 |
| | | Permit 45 | 67 646 | 1 809 481 | 26.75 |
| | | Permit 46 | 162 704 | 5 446 942 | 33.48 |
| | | Permit 68 | 3 970 | 100 244 | 25.25 |
| | | **Subtotal** | **234 813** | **7 368 791** | **31.38** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | NOV98 Energy (MW.h) | NOV98 Revenue (CAN$) [2] | NOV98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Subtotal** | | | **492 765** | **13 712 480** | **27.83** |
| **NB Power** | Canadian Coal | Permit 47 | 229 | 12 135 | 52.90 |
| | | Permit 90 | 4 | 124 | 33.52 |
| | | Permit 91 | 1 230 | 50 369 | 40.94 |
| | | **Subtotal** | **1 463** | **62 628** | **42.80** |
| | Canadian Oil | Permit 16 | 71 | 3 873 | 54.94 |
| | | **Subtotal** | **71** | **3 873** | **54.94** |
| | Imported Coal | Permit 16 | 850 | 46 688 | 54.94 |
| | | Permit 18 | 18 | 968 | 52.60 |
| | | Permit 47 | 740 | 39 157 | 52.90 |
| | | Permit 90 | 7 | 218 | 33.52 |
| | | Permit 91 | 10 543 | 429 957 | 40.78 |
| | | **Subtotal** | **12 158** | **516 987** | **42.52** |
| | Imported Oil | Permit 15 | 367 | 10 123 | 27.58 |
| | | Permit 16 | 10 383 | 568 373 | 54.74 |
| | | Permit 18 | 1 196 | 64 109 | 53.59 |
| | | Permit 47 | 3 125 | 165 307 | 52.90 |
| | | Permit 90 | 3 | 94 | 33.52 |
| | | Permit 91 | 91 734 | 3 696 193 | 40.29 |
| | | **Subtotal** | **106 808** | **4 504 199** | **42.17** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 5
## Source of Production Report [1] by Exporter

NOV98

| Exporter | Fuel Type | Authorization | Energy (MW.h) | Revenue (CAN$) [2] | CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **NB Power** | Other | Permit 16 | 2 809 | 154 857 | 55.14 |
| | | Permit 18 | 454 | 24 339 | 53.59 |
| | | Permit 47 | 2 899 | 153 331 | 52.90 |
| | | Permit 91 | 87 829 | 3 452 385 | 39.31 |
| | | **Subtotal** | **93 990** | **3 784 912** | **40.27** |
| | **Subtotal** | | **214 490** | **8 872 599** | **41.37** |
| **Ont. Hydro/OHIM** | Hydraulic | Permit 21 | 2 428 | 89 830 | 37.00 |
| | | **Subtotal** | **2 428** | **89 830** | **37.00** |
| | Imported Coal | Permit 21 | 53 292 | 1 895 434 | 35.57 |
| | | **Subtotal** | **53 292** | **1 895 434** | **35.57** |
| | Imported Oil | Permit 21 | 8 230 | 386 501 | 46.96 |
| | | **Subtotal** | **8 230** | **386 501** | **~~46.96~~** |
| | Nuclear | Permit 21 | 0 | 11 | 0.00 |
| | | **Subtotal** | **0** | **11** | **~~0.00~~** |
| | **Subtotal** | | **63 950** | **2 371 776** | **37.09** |
| **Powerex** | Hydraulic | Permit 92 | 82 800 | 0 | 0.00 |
| | | Permit 95 | 14 400 | 523 391 | 36.35 |
| | | Permit 118 | 202 334 | 8 360 351 | 41.32 |
| | | Permit 119 | 19 728 | 686 529 | 34.80 |
| | | **Subtotal** | **319 262** | **9 570 271** | **29.98** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 5
## Source of Production Report [1]
## by Exporter

| Exporter | Fuel Type | Authorization | NOV98 Energy (MW.h) | NOV98 Revenue (CAN$) [2] | NOV98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| Powerex | Other | Permit 118 | 333 094 | 13 763 296 | 41.32 |
| | | **Subtotal** | **333 094** | **13 763 296** | **41.32** |
| | **Subtotal** | | **652 356** | **23 333 567** | **35.77** |
| **Total All Exporters** | | | **2 204 791** | **76 768 806** | **34.82** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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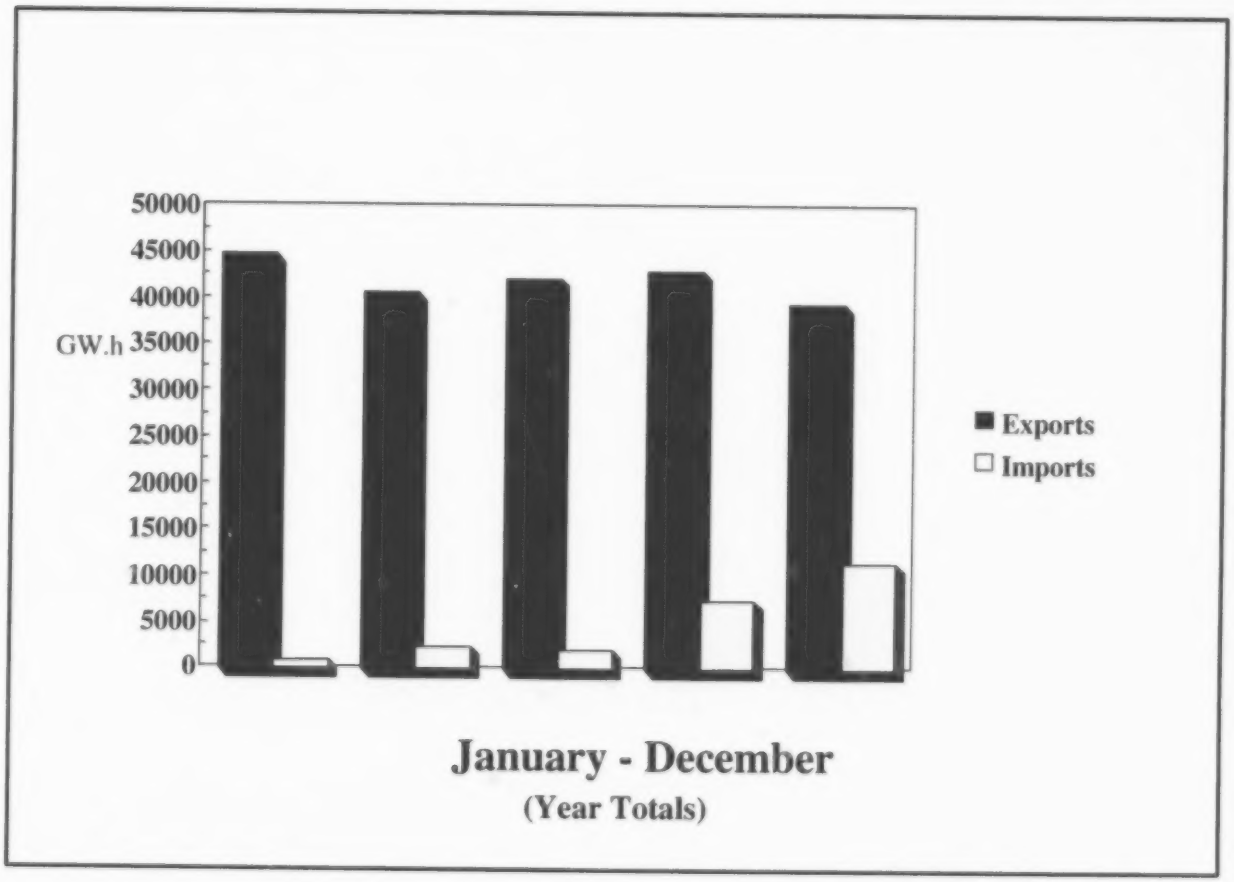
# Electricity Exports and Imports

## Monthly Statistics for:

## December 1998

Exports: **2535** GW.h
Imports: **1047** GW.h



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# TABLE 1
# Exports and Imports of Electricity
# Summary: Canada
# DECEMBER 1998



| | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|
| **Exports of Electric Energy** | Firm | 1 335 369 | 19 761 709 | 60 427 775 | 870 566 254 | 31.79 | 31.57 |
| | Interruptible | 1 199 809 | 19 740 399 | 49 354 475 | 735 287 242 | 41.25 | 36.01 |
| | Non-Revenue/Inadvertant | 34 984 | 1 713 163 | 0 | 0 | 0.00 | 0.00 |
| | Service | 89 324 | 1 008 934 | 64 | 708 | 0.00 | 0.00 |
| **Total Exports** | | **2 659 486** | **42 224 205** | **109 782 314** | **1 605 854 203** | **34.57** | **31.61** |
| Total Sales - Firm and Interruptible | | 2 535 178 | 39 502 108 | 109 782 250 | 1 605 853 495 | 36.26 | 33.79 |
| **Imports of Electric Energy** | Non-Revenue/Inadvertant | 6 787 | 1 538 951 | 0 | 0 | 0.00 | 0.00 |
| | Purchase | 1 047 044 | 11 683 276 | 34 558 371 | 313 192 296 | 29.98 | 23.63 |
| | Service | 348 695 | 1 965 604 | 71 668 | 460 112 | 0.21 | 0.23 |
| **Total Imports** | | **1 402 525** | **15 187 831** | **34 630 039** | **313 652 409** | **22.43** | **18.21** |
| **Excess of Exports Over Imports** | | **1 256 961** | **27 036 374** | **75 152 275** | **1 292 201 794** | | |

**Number of Export Licences:** 16

**Number of Export Permits/Orders:** 86

102

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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CANADA

# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type

| Source | Authorization | Exchange Type | Energy (MW.h) DEC'98 | Energy (MW.h) JAN98 - DEC'98 | Revenue (CAN$) [1] DEC'98 | Revenue (CAN$) [1] JAN98 - DEC'98 | CAN$/MW.h [2] DEC'98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | Permit 98 | I | 0 | 887 | 0 | 15 504 | 0.00 | 17.48 |
| TransAlta Ener. | Permit 73 | I | 0 | 150 | 0 | 2 349 | 0.00 | 15.66 |
| | Permit 74 | F | 2 128 | 60 483 | 58 384 | 1 304 316 | 27.44 | 21.57 |
| **Subtotal Firm and Interruptible Exports: Alberta** | | | **2 128** | **61 520** | **58 384** | **1 322 168** | **27.44** | **21.49** |
| **British Columbia** | | | | | | | | |
| BC Hydro | Permit 105 | F | 76 | 992 | 10 527 | 58 382 | 138.81 | 58.87 |
| | Treaty | N | 39 747 | 330 488 | 0 | 0 | 0.00 | 0.00 |
| BC Hydro/Powerx | Permit 43 | I | 0 | 5 489 294 | 0 | 224 550 228 | 0.00 | 40.91 |
| | Permit 44 | F | 0 | 179 632 | 0 | 4 912 349 | 0.00 | 27.35 |
| Cominco | Permit 57 | I | 24 044 | 237 720 | 1 003 002 | 8 758 829 | 41.72 | 36.85 |
| Powerex | Permit 71 | F | 0 | 25 650 | 0 | 1 083 626 | 0.00 | 42.25 |
| | Permit 92 | F | 85 560 | 760 160 | 0 | 0 | 0.00 | 0.00 |
| | Permit 95 | F | 650 | 75 585 | 40 665 | 2 940 057 | 62.56 | 38.90 |
| | Permit 116 | I | 0 | 200 | 0 | 8 869 | 0.00 | 44.35 |
| | Permit 118 | I | 560 235 | 2 096 035 | 26 027 097 | 80 333 035 | 46.46 | 38.33 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Powerex | Permit 119 | F | 21 427 | 64 995 | 605 139 | 1 851 459 | 28.24 | 28.49 |
| West Kootenay | Permit 13 | F | 16 | 36 | 1 094 | 2 356 | 68.15 | 65.08 |
| **Subtotal Firm and Interruptible Exports: British Columbia** | | | **692 008** | **8 930 299** | **27 687 524** | **324 499 191** | **40.01** | **36.34** |
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | Licence 170 | F | 284 458 | 3 318 319 | 13 178 941 | 160 796 504 | 23.32 | 24.60 |
| | Permit 33 | F | 0 | 176 231 | 0 | 3 696 838 | 0.00 | 21.01 |
| | Permit 34 | F | 0 | 145 900 | 0 | 3 210 998 | 0.00 | 22.01 |
| | Permit 35 | F | 0 | 120 556 | 0 | 3 227 979 | 0.00 | 26.27 |
| | Permit 45 | F | 38 425 | 1 844 780 | 1 024 153 | 53 551 457 | 26.49 | 25.80 |
| | Permit 46 | I | 145 819 | 5 021 608 | 4 312 882 | 123 921 107 | 34.78 | 24.88 |
| | | N | - 214 008 | -1 100 342 | 0 | 0 | 0.00 | 0.00 |
| | Permit 52 | F | 0 | 28 264 | 0 | 1 595 606 | 0.00 | 26.25 |
| | Permit 61 | F | 365 | 4 253 | 17 755 | 197 792 | 48.68 | 46.51 |
| | Permit 68 | F | 10 795 | 111 651 | 571 665 | 5 997 144 | 26.02 | 23.68 |
| | Permit 72 | F | 5 | 5 | 623 | 623 | 129.83 | 129.83 |
| **Subtotal Firm and Interruptible Exports: Manitoba** | | | **479 867** | **10 771 567** | **19 106 018** | **356 196 048** | **27.14** | **24.86** |
| **New Brunswick** | | | | | | | | |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) DEC'98 | Energy (MW.h) JAN'98 - DEC'98 | Revenue (CAN$) [1] DEC'98 | Revenue (CAN$) [1] JAN'98 - DEC'98 | CAN$/MW.h [2] DEC'98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Fraser Inc. | Permit 102 | F | 33 750 | 316 020 | 2 116 259 | 20 946 490 | 62.70 | 66.28 |
| Maine & NB | Licence 177 | F | 4 480 | 92 365 | 158 479 | 2 534 791 | 16.40 | 16.40 |
| NB Power | Permit 15 | I | 0 | 4 098 | 0 | 212 099 | 0.00 | 51.76 |
| | | N | 586 | 119 | 0 | 0 | 0.00 | 0.00 |
| | Permit 16 | I | 10 000 | 80 121 | 560 240 | 4 544 257 | 56.02 | 56.72 |
| | | N | -4 583 | -63 322 | 0 | 0 | 0.00 | 0.00 |
| | Permit 17 | S | 4 050 | 52 449 | 0 | 0 | 0.00 | 0.00 |
| | Permit 18 | I | 592 | 28 889 | 31 291 | 1 415 071 | 52.86 | 48.98 |
| | | N | 108 | 129 | 0 | 0 | 0.00 | 0.00 |
| | Permit 28 | F | 4 | 34 | 534 | 4 086 | 119.99 | 121.84 |
| | Permit 47 | F | 7 760 | 82 888 | 614 640 | 6 361 422 | 52.90 | 51.80 |
| | Permit 90 | F | 0 | 9 685 | 0 | 328 655 | 0.00 | 33.93 |
| | Permit 91 | I | 327 309 | 3 768 656 | 12 101 955 | 149 511 730 | 36.33 | 38.67 |
| **Subtotal Firm and Interruptible Exports: New Brunswick** | | | **383 896** | **4 382 756** | **15 583 398** | **185 858 601** | **39.29** | **40.84** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | Permit 84 | F | 31 176 | 287 748 | 884 218 | 8 345 871 | 28.36 | 29.00 |
| | Permit 85 | S | 0 | 92 568 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | Permit 82 | I | 139 | 11 681 | 3 108 | 254 804 | 22.36 | 21.81 |
| | Permit 83 | S | 25 369 | 255 355 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type

| Source | Authorization | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| D&W Subway | Permit 26 | F | 168 | 1 762 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | Permit 21 | I | 114 481 | 2 301 817 | 4 102 103 | 113 185 993 | 32.35 | 39.93 |
| | | S | 54 826 | 185 715 | 64 | 708 | 0.00 | 0.00 |
| Ontario Hydro | Permit 22 | N | 214 218 | 2 538 631 | 0 | 0 | 0.00 | 0.00 |
| | Permit 24 | F | 18 | 185 | 36 | 369 | 2.00 | 2.00 |
| | Permit 25 | F | 0 | 38 | 0 | 641 | 0.00 | 8.02 |
| **Subtotal Firm and Interruptible Exports: Ontario** | | | **145 982** | **2 603 231** | **4 989 465** | **121 787 677** | **31.45** | **38.62** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | Licence 176 | F | 264 441 | 5 535 093 | 8 976 138 | 188 474 065 | 33.94 | 34.05 |
| | Licence 178 | F | 0 | 1 811 840 | 0 | 77 541 735 | 0.00 | 35.96 |
| | Licence 180 | F | 112 714 | 972 671 | 10 143 152 | 102 739 623 | 39.60 | 38.15 |
| | Licence 181 | F | 36 732 | 343 114 | 3 120 028 | 46 033 714 | 39.60 | 36.85 |
| | Licence 182 | F | 17 927 | 168 193 | 1 527 488 | 15 904 866 | 39.60 | 38.46 |
| | Licence 183 | F | 28 786 | 243 079 | 2 662 385 | 26 950 965 | 39.60 | 38.58 |
| | Licence 184 | F | 16 624 | 128 442 | 1 473 929 | 14 304 997 | 39.60 | 38.52 |
| | Permit 20 | F | 203 | 1 248 | 14 375 | 88 289 | 70.82 | 70.77 |
| | Permit 64 | I | 16 263 | 630 961 | 1 175 899 | 25 993 024 | 71.31 | 40.69 |
| | | N | 227 | 37 784 | 0 | 0 | 0.00 | 0.00 |
| | | S | 5 079 | 352 647 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 2A
## Export Summary Report
## by Source, Authorization and Exchange Type



| Source | Authorization | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| Hydro-Quebec | Permit 65 | F | 335 417 | 2 718 194 | 13 172 843 | 110 335 894 | 38.23 | 38.26 |
| | | S | 0 | 3 950 | 0 | 0 | 0.00 | 0.00 |
| Maclaren Ind. | Permit 111 | I | 0 | 3 205 | 0 | 156 862 | 0.00 | 48.94 |
| **Subtotal Firm and Interruptible Exports: Quebec** | | | **829 107** | **12 556 040** | **42 266 238** | **608 524 035** | **37.87** | **36.16** |
| **Saskatchewan** | | | | | | | | |
| Powerex | Permit 116 | I | 864 | 864 | 34 628 | 34 628 | 40.08 | 40.08 |
| Sask. Power | Licence 118 | S | 0 | 66 250 | 0 | 0 | 0.00 | 0.00 |
| | Licence 119 | I | 63 | 64 213 | 2 270 | 2 388 854 | 36.03 | 37.20 |
| | | N | -1 311 | -30 325 | 0 | 0 | 0.00 | 0.00 |
| | Permit 89 | F | 1 264 | 131 619 | 54 325 | 5 242 295 | 42.98 | 39.83 |
| **Subtotal Firm and Interruptible Exports: Saskatchewan** | | | **2 191** | **196 696** | **91 223** | **7 665 776** | **41.64** | **38.97** |
| **Total Firm and Interruptible Exports:** | | | **2 535 178** | **39 502 108** | **109 782 250** | **1 605 853 495** | **36.26** | **33.79** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Alberta** | | | | | | | | |
| Enron Canada | - | P | 0 | 23 021 | 0 | 563 161 | 0.00 | 24.46 |
| TransAlta | | P | - 259 | 2 688 | 11 414 | 108 441 | 44.08 | 40.34 |
| TransAlta Ener. | | P | 1 479 | 158 728 | 57 134 | 3 976 612 | 38.63 | 25.05 |
| TransCanada | | P | 0 | 2 202 | 0 | 55 595 | 0.00 | 25.25 |
| **Subtotal Purchased Imports: Alberta** | | | **1 738** | **186 639** | **68 548** | **4 703 809** | **39.44** | **25.20** |
| **British Columbia** | | | | | | | | |
| BC Hydro | | P | 0 | 253 | 0 | 17 597 | 0.00 | 69.55 |
| BC Hydro/Powerx | | P | 0 | 3 420 543 | 0 | 68 064 514 | 0.00 | 19.90 |
| Powerex | | P | 345 923 | 803 556 | 11 281 868 | 24 758 701 | 32.61 | 30.81 |
| West Kootenay | | P | 3 205 | 87 317 | 659 203 | 3 477 618 | 102.53 | 26.46 |
| **Subtotal Purchased Imports: British Columbia** | | | **349 128** | **4 311 669** | **11 941 071** | **96 318 430** | **33.26** | **22.07** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type

| Destination | Authorization | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| **Manitoba** | | | | | | | | |
| Manitoba Hydro | - | N | - 217 421 | -1 095 662 | 0 | 0 | 0.00 | 0.00 |
| | | P | 282 676 | 1 162 775 | 6 635 021 | 28 108 520 | 23.45 | 23.66 |
| **Subtotal Purchased Imports: Manitoba** | | | **282 676** | **1 162 775** | **6 635 021** | **28 108 520** | **23.45** | **23.66** |
| **New Brunswick** | | | | | | | | |
| Maine & NB | | P | 653 | 5 854 | 23 200 | 249 793 | 35.53 | 42.67 |
| NB Power | | N | 5 170 | 66 323 | 0 | 0 | 0.00 | 0.00 |
| | | P | 0 | 3 682 | 0 | 49 785 | 0.00 | 13.52 |
| | | S | 4 050 | 52 449 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: New Brunswick** | | | **653** | **9 536** | **23 200** | **299 578** | **35.53** | **31.42** |
| **Ontario** | | | | | | | | |
| Cdn. Niagara | | N | 339 | 7 583 | 0 | 0 | 0.00 | 0.00 |
| Cornwall Elec. | | P | 947 | 8 956 | 207 519 | 1 121 053 | 219.13 | 125.17 |
| | | S | 25 369 | 255 355 | 0 | 0 | 0.00 | 0.00 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

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# TABLE 2B
## Import Summary Report
## by Destination, Authorization and Exchange Type


99/03/25

| Destination | Authorization | Exchange Type | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$) [1] DEC98 | Revenue (CAN$) [1] JAN98 - DEC98 | CAN$/MW.h [2] DEC98 | CAN$/MW.h [2] L12M |
|---|---|---|---|---|---|---|---|---|
| D&W Subway | - | P | 147 | 1 604 | 0 | 0 | 0.00 | 0.00 |
| Ont. Hydro/OHIM | | P | 1 351 | 165 448 | 26 761 | 6 822 073 | 19.81 | 41.23 |
| Ontario Hydro | | N | 214 838 | 2 533 539 | 0 | 0 | 0.00 | 0.00 |
| | | P | 158 374 | 4 371 359 | 4 436 265 | 91 753 072 | 28.01 | 20.95 |
| | | S | 67 208 | 466 204 | 71 668 | 460 112 | 1.07 | 0.99 |
| **Subtotal Purchased Imports: Ontario** | | | **160 819** | **4 547 367** | **4 670 544** | **99 696 199** | **29.04** | **21.88** |
| **Quebec** | | | | | | | | |
| Hydro-Quebec | | N | 4 888 | 79 063 | 0 | 0 | 0.00 | 0.00 |
| | | P | 180 347 | 1 027 466 | 9 205 719 | 70 857 536 | 35.35 | 34.71 |
| | | S | 252 068 | 1 151 596 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Quebec** | | | **180 347** | **1 027 466** | **9 205 719** | **70 857 536** | **35.35** | **34.71** |
| **Saskatchewan** | | | | | | | | |
| Sask. Power | | N | -1 027 | -51 895 | 0 | 0 | 0.00 | 0.00 |
| | | P | 71 683 | 437 824 | 2 014 269 | 13 208 224 | 28.10 | 30.17 |
| | | S | 0 | 40 000 | 0 | 0 | 0.00 | 0.00 |
| **Subtotal Purchased Imports: Saskatchewan** | | | **71 683** | **437 824** | **2 014 269** | **13 208 224** | **28.10** | **30.17** |
| **Total Purchased Imports:** | | | **1 047 044** | **11 683 276** | **34 558 371** | **313 192 296** | **29.98** | **23.63** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales
I - Interruptible Sales
P - Purchase (Import)
N - Non-Revenue (Non-Revenue or Inadvertent)
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$)[1] DEC98 | Revenue (CAN$)[1] JAN98 - DEC98 | CAN$/MW.h[2] DEC98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Alaska** | British Columbia | 76 | 992 | 10 527 | 58 382 | 138.81 | 58.87 |
| **Subtotal Exports: Alaska** | | **76** | **992** | **10 527** | **58 382** | **138.81** | **58.87** |
| **Arizona** | British Columbia | 0 | 4 000 | 0 | 117 972 | 0.00 | 29.49 |
| **Subtotal Exports: Arizona** | | **0** | **4 000** | **0** | **117 972** | **0.00** | **29.49** |
| **California** | British Columbia | 77 439 | 1 341 006 | 5 824 958 | 80 198 438 | 75.22 | 59.80 |
| **Subtotal Exports: California** | | **77 439** | **1 341 006** | **5 824 958** | **80 198 438** | **75.22** | **59.80** |
| **Colorado** | British Columbia | 0 | 1 200 | 0 | 55 222 | 0.00 | 46.02 |
| **Subtotal Exports: Colorado** | | **0** | **1 200** | **0** | **55 222** | **0.00** | **46.02** |
| **Idaho** | British Columbia | 11 361 | 148 443 | 637 600 | 6 518 971 | 56.12 | 43.92 |
| **Subtotal Exports: Idaho** | | **11 361** | **148 443** | **637 600** | **6 518 971** | **56.12** | **43.92** |
| **Iowa** | Manitoba | 1 380 | 107 888 | 57 279 | 2 094 624 | 41.51 | 19.38 |
| **Subtotal Exports: Iowa** | | **1 380** | **107 888** | **57 279** | **2 094 624** | **41.51** | **19.38** |
| **Kansas** | Manitoba | 175 | 3 700 | 6 428 | 110 953 | 36.73 | 29.99 |
| **Subtotal Exports: Kansas** | | **175** | **3 700** | **6 428** | **110 953** | **36.73** | **29.99** |
| **Maine** | New Brunswick | 383 896 | 4 382 756 | 15 583 398 | 185 858 601 | 39.29 | 40.84 |
| **Subtotal Exports: Maine** | | **383 896** | **4 382 756** | **15 583 398** | **185 858 601** | **39.29** | **40.84** |
| **Michigan** | Ontario | 32 918 | 2 027 472 | 1 541 810 | 98 868 954 | 36.11 | 39.75 |
| **Subtotal Exports: Michigan** | | **32 918** | **2 027 472** | **1 541 810** | **98 868 954** | **36.11** | **39.75** |
| **Minnesota** | Manitoba | 430 283 | 8 889 492 | 17 445 636 | 303 329 021 | 26.42 | 24.92 |
| | Ontario | 6 399 | 56 901 | 221 196 | 4 793 044 | 34.57 | 63.43 |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 3A
## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$)[1] DEC98 | Revenue (CAN$)[1] JAN98 - DEC98 | CAN$/MW.h[2] DEC98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Minnesota** | Saskatchewan | 400 | 7 494 | 16 864 | 283 097 | 42.16 | 37.78 |
| **Subtotal Exports: Minnesota** | | **437 082** | **8 953 887** | **17 683 696** | **308 405 162** | **26.56** | **25.18** |
| **Missouri** | Manitoba | 0 | 599 | 0 | 22 627 | 0.00 | 37.77 |
| **Subtotal Exports: Missouri** | | **0** | **599** | **0** | **22 627** | **0.00** | **37.77** |
| **Montana** | British Columbia | 245 | 25 442 | 15 412 | 1 307 712 | 62.91 | 51.40 |
| | Manitoba | 0 | 534 | 0 | 24 053 | 0.00 | 45.04 |
| | Saskatchewan | 864 | 864 | 34 628 | 34 628 | 40.08 | 40.08 |
| **Subtotal Exports: Montana** | | **1 109** | **26 840** | **50 040** | **1 366 393** | **45.12** | **50.91** |
| **Nebraska** | Manitoba | 325 | 29 602 | 11 938 | 819 156 | 36.73 | 27.67 |
| **Subtotal Exports: Nebraska** | | **325** | **29 602** | **11 938** | **819 156** | **36.73** | **27.67** |
| **New England** | Ontario | 0 | 41 364 | 0 | 996 197 | 0.00 | 24.08 |
| | Quebec | 571 403 | 8 360 684 | 20 834 444 | 295 467 920 | 36.46 | 35.34 |
| **Subtotal Exports: New England** | | **571 403** | **8 402 048** | **20 834 444** | **296 464 117** | **36.46** | **35.28** |
| **New York** | Ontario | 104 906 | 466 529 | 3 164 498 | 16 447 051 | 29.73 | 31.37 |
| | Quebec | 403 | 2 033 267 | 24 554 | 89 051 822 | 60.93 | 37.70 |
| **Subtotal Exports: New York** | | **105 309** | **2 499 796** | **3 189 052** | **105 498 873** | **29.85** | **36.52** |
| **North Dakota** | Manitoba | 1 250 | 139 367 | 40 000 | 6 526 718 | 32.00 | 33.16 |
| | Saskatchewan | 63 | 84 424 | 2 270 | 3 872 422 | 36.03 | 45.87 |
| **Subtotal Exports: North Dakota** | | **1 313** | **223 791** | **42 269** | **10 399 139** | **32.19** | **37.95** |
| **Oregon** | Alberta | 100 | 982 | 2 562 | 25 119 | 25.62 | 25.58 |
| | British Columbia | 72 172 | 703 421 | 2 774 124 | 22 645 140 | 38.44 | 32.19 |
| **Subtotal Exports: Oregon** | | **72 272** | **704 403** | **2 776 686** | **22 670 259** | **38.42** | **32.18** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3A

## Export Sales Summary Report by Destination and Source



| Destination | Source | Energy (MW.h) DEC'98 | Energy (MW.h) JAN98 - DEC'98 | Revenue (CAN$)[1] DEC'98 | Revenue (CAN$)[1] JAN98 - DEC'98 | CAN$/MW.h[2] DEC98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Pennsylvania** | Ontario | 1 759 | 10 965 | 61 961 | 682 431 | 35.22 | 62.24 |
| **Subtotal Exports: Pennsylvania** | | **1 759** | **10 965** | **61 961** | **682 431** | **35.22** | **62.24** |
| **South Dakota** | Manitoba | 3 | 22 372 | 138 | 479 072 | 45.92 | 21.41 |
| **Subtotal Exports: South Dakota** | | **3** | **22 372** | **138** | **479 072** | **45.92** | **21.41** |
| **Texas** | Manitoba | 10 955 | 738 005 | 386 887 | 22 438 165 | 35.32 | 24.13 |
| **Subtotal Exports: Texas** | | **10 955** | **738 005** | **386 887** | **22 438 165** | **35.32** | **24.13** |
| **Utah** | British Columbia | 144 | 1 544 | 9 918 | 66 836 | 68.87 | 43.29 |
| **Subtotal Exports: Utah** | | **144** | **1 544** | **9 918** | **66 836** | **68.87** | **43.29** |
| **Vermont** | Quebec | 257 301 | 2 162 089 | 21 407 240 | 224 004 293 | 40.97 | 37.90 |
| **Subtotal Exports: Vermont** | | **257 301** | **2 162 089** | **21 407 240** | **224 004 293** | **40.97** | **37.90** |
| **Washington** | Alberta | 2 028 | 60 538 | 55 822 | 1 297 049 | 27.53 | 21.43 |
| | British Columbia | 530 571 | 6 704 251 | 18 414 987 | 213 530 518 | 34.71 | 31.85 |
| | Saskatchewan | 864 | 103 914 | 37 461 | 3 475 630 | 43.36 | 33.45 |
| **Subtotal Exports: Washington** | | **533 463** | **6 868 703** | **18 508 270** | **218 303 197** | **34.69** | **31.78** |
| **Wisconsin** | Manitoba | 35 496 | 840 008 | 1 157 712 | 20 351 660 | 32.44 | 24.15 |
| **Subtotal Exports: Wisconsin** | | **35 496** | **840 008** | **1 157 712** | **20 351 660** | **32.44** | **24.15** |
| **Total Exports** | | **2 535 178** | **39 502 108** | **109 782 250** | **1 605 853 495** | **36.26** | **33.79** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B
## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) DEC'98 | Energy (MW.h) JAN'98 - DEC'98 | Revenue (CAN$)[1] DEC'98 | Revenue (CAN$)[1] JAN'98 - DEC'98 | CAN$/MW.h[2] DEC'98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Idaho** | Alberta | 0 | 70 | 0 | 5 534 | 0.00 | 79.06 |
| **Subtotal Imports: Idaho** | | **0** | **70** | **0** | **5 534** | **0.00** | **79.06** |
| **Iowa** | Manitoba | 26 300 | 41 264 | 678 310 | 1 228 172 | 25.79 | 29.76 |
| **Subtotal Imports: Iowa** | | **26 300** | **41 264** | **678 310** | **1 228 172** | **25.79** | **29.76** |
| **Maine** | New Brunswick | 653 | 9 536 | 23 200 | 299 578 | 35.53 | 31.42 |
| **Subtotal Imports: Maine** | | **653** | **9 536** | **23 200** | **299 578** | **35.53** | **31.42** |
| **Michigan** | Ontario | 156 676 | 3 561 049 | 4 391 667 | 64 090 467 | 28.03 | 18.00 |
| **Subtotal Imports: Michigan** | | **156 676** | **3 561 049** | **4 391 667** | **64 090 467** | **28.03** | **18.00** |
| **Minnesota** | Manitoba | 199 715 | 949 536 | 4 709 175 | 22 615 042 | 23.58 | 23.56 |
| | Ontario | 1 045 | 67 322 | 22 632 | 1 838 554 | 21.66 | 27.31 |
| | Saskatchewan | 0 | 900 | 0 | 31 337 | 0.00 | 34.82 |
| **Subtotal Imports: Minnesota** | | **200 760** | **1 017 758** | **4 731 807** | **24 484 934** | **23.57** | **23.82** |
| **Missouri** | Manitoba | 300 | 314 | 6 084 | 7 852 | 20.28 | 25.01 |
| **Subtotal Imports: Missouri** | | **300** | **314** | **6 084** | **7 852** | **20.28** | **25.01** |
| **Montana** | Alberta | 259 | 3 600 | 11 414 | 149 241 | 44.08 | 41.46 |
| | British Columbia | 0 | 253 | 0 | 17 597 | 0.00 | 69.55 |
| | Manitoba | 300 | 300 | 6 199 | 6 199 | 20.66 | 20.66 |
| **Subtotal Imports: Montana** | | **559** | **4 153** | **17 612** | **173 037** | **31.51** | **41.67** |
| **Nebraska** | Manitoba | 23 975 | 77 840 | 468 119 | 1 782 846 | 19.27 | 21.69 |
| **Subtotal Imports: Nebraska** | | **23 975** | **77 840** | **468 119** | **1 782 846** | **19.27** | **21.69** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 3B

## Import Purchases Summary Report by Source and Destination



| Source | Destination | Energy (MW.h) DEC'98 | Energy (MW.h) JAN'98 - DEC'98 | Revenue (CAN$)[1] DEC'98 | Revenue (CAN$)[1] JAN'98 - DEC'98 | CAN$/MW.h[2] DEC'98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **New England** | Quebec | 26 100 | 37 431 | 764 777 | 2 115 868 | 29.30 | 56.53 |
| **Subtotal Imports: New England** | | **26 100** | **37 431** | **764 777** | **2 115 868** | **29.30** | **56.53** |
| **New York** | Ontario | 1 747 | 744 173 | 229 485 | 26 515 925 | 131.36 | 35.38 |
| | Quebec | 135 282 | 929 350 | 4 869 459 | 31 126 231 | 35.99 | 33.49 |
| **Subtotal Imports: New York** | | **137 029** | **1 673 523** | **5 098 944** | **57 642 157** | **37.21** | **34.33** |
| **North Dakota** | Manitoba | 5 661 | 10 949 | 125 291 | 226 909 | 22.13 | 20.72 |
| | Saskatchewan | 71 558 | 413 115 | 2 007 178 | 12 220 307 | 28.05 | 29.58 |
| **Subtotal Imports: North Dakota** | | **77 219** | **424 064** | **2 132 469** | **12 447 217** | **27.62** | **29.35** |
| **Oregon** | Alberta | 1 269 | 112 999 | 50 962 | 2 638 501 | 40.16 | 23.35 |
| | British Columbia | 0 | 110 | 0 | 3 124 | 0.00 | 28.40 |
| **Subtotal Imports: Oregon** | | **1 269** | **113 109** | **50 962** | **2 641 625** | **40.16** | **23.35** |
| **Pennsylvania** | Ontario | 1 351 | 174 823 | 26 761 | 7 251 252 | 19.81 | 41.48 |
| **Subtotal Imports: Pennsylvania** | | **1 351** | **174 823** | **26 761** | **7 251 252** | **19.81** | **41.48** |
| **South Dakota** | Alberta | 0 | 3 225 | 0 | 124 188 | 0.00 | 38.51 |
| | Manitoba | 5 315 | 49 084 | 105 536 | 1 135 806 | 19.86 | 23.14 |
| **Subtotal Imports: South Dakota** | | **5 315** | **52 309** | **105 536** | **1 259 994** | **19.86** | **24.09** |
| **Texas** | Manitoba | 0 | 0 | 0 | 257 028 | 0.00 | 0.00 |
| **Subtotal Imports: Texas** | | **0** | **0** | **0** | **257 028** | **0.00** | **0.00** |
| **Vermont** | Quebec | 18 965 | 60 685 | 3 571 483 | 37 615 436 | 39.06 | 39.92 |
| **Subtotal Imports: Vermont** | | **18 965** | **60 685** | **3 571 483** | **37 615 436** | **39.06** | **39.92** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 3B

## Import Purchases Summary Report by Source and Destination

| Source | Destination | Energy (MW.h) DEC98 | Energy (MW.h) JAN98 - DEC98 | Revenue (CAN$)[1] DEC98 | Revenue (CAN$)[1] JAN98 - DEC98 | CAN$/MW.h[2] DEC98 | CAN$/MW.h[2] L12M |
|---|---|---|---|---|---|---|---|
| **Washington** | Alberta | 210 | 66 745 | 6 172 | 1 786 345 | 29.39 | 26.76 |
| | British Columbia | 349 128 | 4 311 306 | 11 941 071 | 96 297 709 | 33.26 | 22.07 |
| | Saskatchewan | 125 | 23 809 | 7 091 | 956 579 | 56.72 | 40.18 |
| **Subtotal Imports: Washington** | | **349 463** | **4 401 860** | **11 954 333** | **99 040 634** | **33.26** | **22.23** |
| **Wisconsin** | Manitoba | 21 110 | 33 488 | 536 308 | 848 666 | 25.41 | 25.34 |
| **Subtotal Imports: Wisconsin** | | **21 110** | **33 488** | **536 308** | **848 666** | **25.41** | **25.34** |
| **Total Imports** | | **1 047 044** | **11 683 276** | **34 558 371** | **313 192 296** | **29.98** | **23.63** |

Footnotes:
1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 4
## Source of Production Report [1]
## Canadian Exports



| | DEC98 | | |
|---|---|---|---|
| Fuel Type | Energy (MW.h) | Revenue (CAN$) [2] | CAN$/MW.h [2] |
| Canadian Coal | 5 108 | 196 045 | 38.38 |
| Canadian Oil | 38 | 2 190 | 57.47 |
| Hydraulic | 1 326 108 | 45 452 822 | 34.28 |
| Imported Coal | 146 147 | 4 857 841 | 33.24 |
| Imported Oil | 232 463 | 8 693 164 | 37.40 |
| Other | 753 587 | 29 556 729 | 39.22 |
| **Total** | **2 463 451** | **88 758 790** | **36.03** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 5
## Source of Production Report [1] by Exporter



| Exporter | Fuel Type | Authorization | DEC98 Energy (MW.h) | DEC98 Revenue (CAN$) [2] | DEC98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| Cominco | Hydraulic | Permit 57 | 24 044 | 1 003 002 | 41.72 |
| | | **Subtotal** | **24 044** | **1 003 002** | **41.72** |
| | **Subtotal** | | **24 044** | **1 003 002** | **41.72** |
| Hydro-Quebec | Hydraulic | Licence 176 | 264 441 | 8 976 138 | 33.94 |
| | | Licence 180 | 112 714 | 4 463 891 | 39.60 |
| | | Licence 181 | 36 732 | 1 454 723 | 39.60 |
| | | Licence 182 | 17 927 | 709 975 | 39.60 |
| | | Licence 183 | 28 786 | 1 140 032 | 39.60 |
| | | Licence 184 | 16 624 | 658 372 | 39.60 |
| | | Permit 64 | 16 263 | 1 159 706 | 71.31 |
| | | Permit 65 | 335 417 | 12 824 177 | 38.23 |
| | | **Subtotal** | **828 904** | **31 387 015** | **37.87** |
| | **Subtotal** | | **828 904** | **31 387 015** | **37.87** |
| Manitoba Hydro | Hydraulic | Licence 170 | 196 381 | 4 580 551 | 23.33 |
| | | **Subtotal** | **196 381** | **4 580 551** | **23.32** |
| | Other | Licence 170 | 88 077 | 2 054 380 | 23.33 |
| | | Permit 45 | 38 425 | 1 017 967 | 26.49 |
| | | Permit 46 | 145 819 | 5 071 381 | 34.78 |
| | | Permit 68 | 10 795 | 280 870 | 26.02 |
| | | **Subtotal** | **283 116** | **8 424 598** | **29.76** |
| | **Subtotal** | | **479 497** | **13 005 149** | **27.12** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

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# TABLE 5
## Source of Production Report [1] by Exporter



| Exporter | Fuel Type | Authorization | DEC'98 Energy (MW.h) | DEC'98 Revenue (CAN$) [2] | DEC'98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| NB Power | Canadian Coal | Permit 18 | 15 | 785 | 52.35 |
| | | Permit 47 | 629 | 33 274 | 52.90 |
| | | Permit 91 | 4 464 | 161 985 | 36.29 |
| | | **Subtotal** | **5 108** | **196 045** | **38.38** |
| | Canadian Oil | Permit 16 | 38 | 2 190 | 57.47* |
| | | **Subtotal** | **38** | **2 190** | **57.47** |
| | Imported Coal | Permit 16 | 955 | 53 872 | 56.42 |
| | | Permit 18 | 67 | 3 788 | 56.28 |
| | | Permit 47 | 1 399 | 74 023 | 52.90 |
| | | Permit 91 | 43 685 | 1 588 971 | 36.37 |
| | | **Subtotal** | **46 106** | **1 720 653** | **37.32** |
| | Imported Oil | Permit 16 | 4 961 | 279 290 | 56.30 |
| | | Permit 18 | 404 | 21 206 | 52.44 |
| | | Permit 47 | 5 732 | 303 207 | 52.90 |
| | | Permit 91 | 209 248 | 7 599 106 | 36.32 |
| | | **Subtotal** | **220 344** | **8 202 810** | **37.23** |
| | Other | Permit 16 | 4 047 | 224 889 | 55.58 |
| | | Permit 18 | 105 | 5 512 | 52.35 |
| | | Permit 91 | 69 913 | 2 542 520 | 36.37 |
| | | **Subtotal** | **74 065** | **2 772 921** | **37.44** |
| | **Subtotal** | | **345 661** | **12 894 618** | **37.30** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter

| Exporter | Fuel Type | Authorization | DEC98 Energy (MW.h) | DEC98 Revenue (CAN$) [2] | DEC98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| **Ont. Hydro/OHIM** | Hydraulic | Permit 21 | 1 520 | 49 156 | 32.34 |
| | | **Subtotal** | **1 520** | **49 156** | **32.34** |
| | Imported Coal | Permit 21 | 100 041 | 3 137 188 | 31.36 |
| | | **Subtotal** | **100 041** | **3 137 188** | **31.36** |
| | Imported Oil | Permit 21 | 12 119 | 490 354 | 40.46 |
| | | **Subtotal** | **12 119** | **490 354** | **40.46** |
| | Other | Permit 21 | 801 | 26 394 | 32.95 |
| | | **Subtotal** | **801** | **26 394** | **32.95** |
| | **Subtotal** | | **114 481** | **3 703 093** | **32.35** |
| **Powerex** | Hydraulic | Permit 92 | 85 560 | 0 | 0.00 |
| | | Permit 95 | 650 | 40 665 | 62.56 |
| | | Permit 118 | 167 622 | 7 787 293 | 46.46 |
| | | Permit 119 | 21 427 | 605 139 | 28.24 |
| | | **Subtotal** | **275 259** | **8 433 097** | **30.64** |
| | Other | Permit 116 | 864 | 34 628 | 40.08 |
| | | Permit 118 | 392 613 | 18 239 804 | 46.46 |
| | | **Subtotal** | **393 477** | **18 274 431** | **46.44** |
| | **Subtotal** | | **668 736** | **26 707 529** | **39.94** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.

# TABLE 5
## Source of Production Report [1] by Exporter



| Exporter | Fuel Type | Authorization | DEC'98 Energy (MW.h) | DEC'98 Revenue (CAN$) [2] | DEC'98 CAN$/MW.h [2] |
|---|---|---|---|---|---|
| TransAlta Ener. | Other | Permit 74 | 2 128 | 58 384 | 27.44 |
| | | **Subtotal** | **2 128** | **58 384** | **27.44** |
| | **Subtotal** | | **2 128** | **58 384** | **27.44** |
| **Total All Exporters** | | | **2 463 451** | **88 758 790** | **36.03** |

Footnotes:
1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:
- Revenue for Permit 92 not available.